



APPLICATIONS UNDER EXAMINATION

IMPATIENS

IMPATIENS (*Impatiens*)

Proposed denomination: 'SAKIMP017'
Trade name: SunPatiens Compact Deep Rose
Application number: 09-6730
Application date: 2009/09/24
Applicant: Sakata Seed Corporation, Yokohama, Japan
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Moriya Kawashima, Amslelveen, The Netherlands

Variety used for comparison: 'SAKIMP009' (SunPatiens Compact Coral)

Summary: *The upper side of the leaf blade is dark green for 'SAKIMP017' while it is medium green for 'SAKIMP009'. The midrib and secondary veins on the upper side of the leaf blade have strong anthocyanin colouration for 'SAKIMP017' while the midrib has weak anthocyanin for 'SAKIMP009' and there is no anthocyanin in the secondary veins. The lower side of the leaf blade of 'SAKIMP017' has weak anthocyanin between the veins while the lower side of the leaf blade of 'SAKIMP009' has no anthocyanin. The midrib and veins on the lower side of the leaf blade of 'SAKIMP017' have strong anthocyanin while the midrib of 'SAKIMP009' has weak anthocyanin and the veins have absent or very weak anthocyanin. The pedicel is shorter for 'SAKIMP017' than for 'SAKIMP009'.*

Description:

SHOOT: very strong anthocyanin colouration on upper third

LEAF: no variegation, upper side dark green with strong anthocyanin colouration on midrib and secondary veins, lower side green with weak red colouration between veins, midrib and veins on lower side with strong anthocyanin colouration

PETIOLE: upper side with medium to strong anthocyanin colouration

FLOWER: single, upper side dark pink red (darker than RHS 52A), lower side purple red (RHS 55A), lower petal with shallow depth of incision

EYE ZONE: small, red (more red than RHS 61A)

PEDICEL: weak anthocyanin colouration

SPUR: medium to strong anthocyanin colouration, medium degree of curvature.

Origin and Breeding: The variety 'SAKIMP017' originated from a hybridization between two proprietary breeding lines, made in January 2003 at the Misato Research Station in Misato, Japan. The resultant F1 progeny were evaluated in an open field trial and a single plant selection was made based on criteria for flower colour, strong root system and compact growth habit. From May to August 2006, the selection was evaluated in the field in Misato, Japan. Shoot tip cuttings of the selection were propagated in Salinas, California and evaluated for stability traits. The selection, subsequently named 'SAKIMP017', was found to have unique characteristics that reproduce true to type in successive generations of asexual propagation.

Tests and Trials: Trials for 'SAKIMP017' were conducted in a polyhouse during the spring of 2010 in St. Thomas, Ontario. Trials included 15 plants each of the candidate and reference varieties. Rooted cuttings were transplanted into 15 cm pots on April 21, 2010. Observations and measurements were taken from 10 plants of each variety on June 21, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'SAKIMP017'

| | 'SAKIMP017' | 'SAKIMP009'* |
|-------------------------------|-------------|--------------|
| <i>Length of pedicel (cm)</i> | | |
| mean | 4.8 | 6.8 |
| std. deviation | 0.41 | 0.40 |

*reference variety



Impatiens: 'SAKIMP017' (left) with reference variety 'SAKIMP009' (right)



Impatiens: 'SAKIMP017' (left) with reference variety 'SAKIMP009' (right)

Proposed denomination: 'SAKIMP018'
Trade name: SunPatiens Spreading Variegated White
Application number: 09-6731
Application date: 2009/09/24
Applicant: Sakata Seed Corporation, Yokohama, Japan
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Moriya Kawashima, Amslveen, The Netherlands

Varieties used for comparison: 'SAKIMP014' (SunPatiens Compact White) and 'SAKIMP005' (SunPatiens Variegated Salmon)

Summary: *The leaf blade of 'SAKIMP018' is variegated while the leaf blade of 'SAKIMP014' has no variegation. The flower diameter is smaller for 'SAKIMP018' than for the reference varieties. The upper and lower side of the petal is white with a blush of light blue violet for 'SAKIMP018' while it is red to orange-red with red pink at the base for 'SAKIMP005'. The upper and lateral petals are narrower for 'SAKIMP018' than for the reference varieties. The flower spur has absent or very weak anthocyanin colouration for 'SAKIMP018' while the spur of 'SAKIMP014' has weak anthocyanin and the spur of 'SAKIMP005' has medium anthocyanin.*

Description:

SHOOT: medium anthocyanin colouration on upper third

LEAF: variegation present, upper side dark green with light yellow secondary colour, absent or very weak anthocyanin on upper side, lower side green and yellow with absent or very weak anthocyanin colouration on midrib and veins

PETIOLE: upper side with very weak anthocyanin colouration

FLOWER: single, upper and lower side white (RHS NN155C) with light blue violet (RHS 76C) blush, lower petal with shallow depth of incision, no eye zone

PEDICEL: very weak anthocyanin colouration

SPUR: absent or very weak anthocyanin colouration, strong curvature.

Origin and Breeding: The variety 'SAKIMP018' originated from a hybridization between two proprietary breeding lines, made in February 2003 at the Misato Research Station in Misato, Japan. The resultant F1 progeny were evaluated in an open field trial and a single plant selection was made based on criteria for flower colour, strong root system and compact growth habit. From May to August 2006, the selection was evaluated in the field in Misato, Japan. Shoot tip cuttings of the selection were propagated in Salinas, California and evaluated for stability traits. The selection, subsequently named 'SAKIMP018', was found to have unique characteristics that reproduce true to type in successive generations of asexual propagation.

Tests and Trials: Trials for 'SAKIMP018' were conducted in a polyhouse during the spring of 2010 in St. Thomas, Ontario. Trials included 15 plants each of the candidate and reference varieties. Rooted cuttings were transplanted into 15 cm pots on April 21, 2010. Observations and measurements were taken from 10 plants of each variety on June 21, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'SAKIMP018'

| | 'SAKIMP018' | 'SAKIMP014'* | 'SAKIMP005'* |
|-------------------------------|-----------------------|-----------------------|--------------------------------|
| <i>Flower diameter (cm)</i> | | | |
| mean | 4.9 | 5.8 | 5.6 |
| std. deviation | 0.27 | 0.24 | 0.22 |
| <i>Colour of petal (RHS)</i> | | | |
| upper side | NN155C with 76C blush | NN155C with 76C blush | 41A-B, with 48C-D towards base |
| lower side | NN155C with 76C blush | NN155C with 76C blush | 41D |
| <i>Upper petal width (cm)</i> | | | |
| mean | 2.8 | 3.6 | 3.1 |
| std. deviation | 0.19 | 0.17 | 0.19 |

Lateral petal width (cm)

| | | | |
|----------------|------|------|------|
| mean | 1.9 | 2.1 | 2.3 |
| std. deviation | 0.14 | 0.19 | 0.13 |

*reference varieties



Impatiens: 'SAKIMP018' (left) with reference variety 'SAKIMP014' (centre) and 'SAKIMP005' (right)



Impatiens: 'SAKIMP018' (left) with reference variety 'SAKIMP014' (centre) and 'SAKIMP005' (right)

Proposed denomination: 'SAKIMP021'
Trade name: SunPatiens Vigorous Pink
Application number: 10-6950
Application date: 2010/04/30
Applicant: Sakata Seed Corporation, Yokohama, Japan
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Moriya Kawashima, Sakata Seed Corporation, Nagano-ken, Japan
 Michiyoshi Fuyama, Sakata Seed Corporation, Shizuoka, Japan

Variety used for comparison: 'SAKIMP006' (SunPatiens Lavender)

Summary: *The upper third of the shoot of 'SAKIMP021' has weak anthocyanin colouration while the shoot of 'SAKIMP006' has strong anthocyanin. The lower side of the leaf blade of 'SAKIMP021' has absent or very weak anthocyanin colouration on the midrib and veins while the leaf blade of 'SAKIMP006' has strong anthocyanin on the midrib and medium anthocyanin on the veins. The flower diameter is smaller for 'SAKIMP021' than for 'SAKIMP006'. The upper side of the petal is purple red to blue pink for 'SAKIMP021' while it is purple for 'SAKIMP006'. The flower spur of 'SAKIMP021' has medium anthocyanin colouration while the spur of 'SAKIMP006' has very weak anthocyanin.*

Description:

SHOOT: weak anthocyanin colouration on upper third

LEAF: variegation absent, upper side medium green with absent or very weak anthocyanin colouration, lower side green with absent or very weak anthocyanin colouration on midrib and veins

PETIOLE: upper side with absent or very weak anthocyanin colouration

FLOWER: single, upper side purple red to blue pink (RHS N66B-C), lower side blue pink (RHS N66C-D) with blue pink to light blue pink (RHS 65A-B) along midrib, lower petal with shallow incision, no eye zone

PEDICEL: very weak anthocyanin colouration

SPUR: medium anthocyanin colouration, weak to medium degree of curvature.

Origin and Breeding: The variety 'SAKIMP021' originated from a hybridization between two proprietary breeding lines, made in June 2005 at the Misato Research Station in Misato, Japan. The resultant F1 progeny were evaluated in an open field trial and a single plant selection was made based on criteria for flower colour, strong root system and vigorous plant growth habit. From May to August 2006, the selection was evaluated in the field in Misato, Japan. Shoot tip cuttings of the selection were sent to Salinas, California where the plants were grown and evaluated for stability traits. The selection, subsequently named 'SAKIMP021', was found to have unique characteristics that reproduce true to type in successive generations of asexual propagation.

Tests and Trials: Trials for 'SAKIMP021' were conducted in a polyhouse during the spring of 2010 in St. Thomas, Ontario. Trials included 15 plants each of the candidate and reference varieties. Rooted cuttings were transplanted into 15 cm pots on April 21, 2010. Observations and measurements were taken from 10 plants of each variety on June 21, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'SAKIMP021'

| | 'SAKIMP021' | 'SAKIMP006'* |
|------------------------------|----------------------------|---|
| <i>Plant height (cm)</i> | | |
| mean | 35.4 | 30.6 |
| std. deviation | 3.59 | 4.19 |
| <i>Flower diameter (cm)</i> | | |
| mean | 5.3 | 6.5 |
| std. deviation | 0.22 | 0.37 |
| <i>Colour of petal (RHS)</i> | | |
| upper side | N66B-C | N74A-B |
| lower side | N66C-D, 65A-B along midrib | N74C with N74B at margin and base, N74A at midrib |

Upper petal width (cm)

| | | |
|----------------|------|------|
| mean | 3.7 | 4.5 |
| std. deviation | 0.13 | 0.15 |

*reference variety



Impatiens: 'SAKIMP021' (left) with reference variety 'SAKIMP006' (right)



Impatiens: 'SAKIMP021' (left) with reference variety 'SAKIMP006' (right)

IMPATIENS
(*Impatiens walleriana*)

Proposed denomination: 'Imspewhit'
Trade name: Spellbound White '10
Application number: 09-6736
Application date: 2008/10/14 (priority claimed)
Applicant: Syngenta Crop Protection AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Monica Sanders, Syngenta Seeds B.V., Enkhuizen, The Netherlands

Variety used for comparison: 'Imtrawhit' (Spellbound White)

Summary: *The leaf of 'Imspewhit' is longer than the leaf of 'Imtrawhit'. The upper side of the leaf blade is medium to dark green for 'Imspewhit' while it is medium green for 'Imtrawhit'. The pedicel is longer for 'Imspewhit' than for 'Imtrawhit'. The ovary is small for 'Imspewhit' while it is medium in size for 'Imtrawhit'.*

Description:

SHOOT: no anthocyanin colouration on upper third

LEAF: variegation absent, upper side medium to dark green, absent or very weak anthocyanin on upper side, lower side green with no anthocyanin colouration on midrib and veins

PETIOLE: upper side with no anthocyanin colouration

FLOWER: single, upper and lower side white (RHS NN155C), lower petal with medium depth of incision, no eye zone

PEDICEL: no anthocyanin colouration

SPUR: no anthocyanin colouration, medium degree of curvature

OVARY: small

Origin and Breeding: The variety 'Imspewhit' originated from a controlled cross pollination made in February 2005, at Syngenta Seeds B.V., in Enkhuizen, The Netherlands. The female parent was a proprietary line designated W4039-1 and the male parent was a proprietary line designated W1452-1. The resultant seed was sown in a greenhouse in March 2005. The new variety 'Imspewhit' was selected as a single seedling in September 2005 in Enkhuizen, based on criteria for flower colour, plant habit and production characteristics.

Tests and Trials: Trials for 'Imspewhit' were conducted in a polyhouse during the summer of 2010 in St. Thomas, Ontario. Trials included 15 plants each of the candidate and reference varieties. Rooted cuttings were transplanted into 15 cm pots on April 21, 2010. Observations and measurements were taken from 10 plants of each variety on June 2, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Imspewhit'

| | 'Imspewhit' | 'Imtrawhit'* |
|----------------------------|-------------|--------------|
| <i>Leaf length (cm)</i> | | |
| mean | 6.4 | 5.4 |
| std. deviation | 0.53 | 0.47 |
| <i>Pedicel length (cm)</i> | | |
| mean | 2.5 | 1.9 |
| std. deviation | 0.20 | 0.37 |

*reference variety



Impatiens: 'Imspewhit' (left) with reference variety 'Imtrawhit' (right)



Impatiens: 'Imspewhit' (left) with reference variety 'Imtrawhit' (right)

| | |
|-------------------------------|---|
| Proposed denomination: | 'Imtracorbu' |
| Trade names: | Spellbound Coral Pink Butterfly, Spellbound Pink Splash |
| Application number: | 09-6737 |
| Application date: | 2008/10/14 (priority claimed) |
| Applicant: | Syngenta Crop Protection AG, Basel, Switzerland |
| Agent in Canada: | BioFlora Inc., St. Thomas, Ontario |
| Breeder: | Monica Sanders, Syngenta Seeds B.V., Enkhuizen, The Netherlands |

Variety used for comparison: 'Imtrarestar' (Spellbound Strawberry Star)

Summary: *'The leaf of 'Imtracorbu' is shorter than the leaf of 'Imtrarestar'. The main colour on the upper side of the petal is light blue pink for 'Imtracorbu' while the main colour is purple red for 'Imtrarestar'. The secondary colour on the upper side of the petal is dark pink red with purple red along the edge for 'Imtracorbu' while the secondary colour is white with purple along the edge for 'Imtrarestar'. The secondary colour is distributed around the base of the petals for 'Imtracorbu' while it is along the midrib of the petals for 'Imtrarestar'. The lower side of the petal is white for 'Imtracorbu' while it is dark pink red, white and purple for 'Imtrarestar'.*

Description:

SHOOT: weak to medium anthocyanin colouration on upper third

LEAF: variegation absent, upper side medium green with no anthocyanin colouration, lower side green with no anthocyanin colouration on midrib and veins

PETIOLE: upper side with weak to medium anthocyanin colouration

FLOWER: single, upper side light blue pink (RHS 62B) with dark pink red (RHS 52A) and purple red (RHS 58C) at base of petals, lower side white (RHS NN155C), lower petal with very shallow incision

EYE ZONE: small, white

PEDICEL: no anthocyanin colouration

SPUR: no anthocyanin colouration, weak to medium degree of curvature.

Origin and Breeding: The variety 'Imtracorbu' originated from a controlled cross pollination made in February 2005, at Syngenta Seeds B.V., in Enkhuizen, The Netherlands. The female parent was a proprietary line designated W3797-3 and the male parent was a proprietary line designated W4709-2. The resultant seed was sown in a greenhouse in March 2005. The new variety 'Imtracorbu' was selected as a single seedling in September 2005 in Enkhuizen, based on criteria for flower colour, plant habit and production characteristics.

Tests and Trials: Trials for 'Imtracorbu' were conducted in a polyhouse during the summer of 2010 in St. Thomas, Ontario. Trials included 15 plants each of the candidate and reference varieties. Rooted cuttings were transplanted into 15 cm pots on April 21, 2010. Observations and measurements were taken from 10 plants of each variety on June 2, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Imtracorbu'

| | 'Imtracorbu' | 'Imtrarestar'* |
|------------------------------|-------------------------|-------------------------------------|
| <i>Leaf length (cm)</i> | | |
| mean | 4.9 | 6.0 |
| std. deviation | 0.42 | 0.48 |
| <i>Colour of petal (RHS)</i> | | |
| upper side - main | 62B | N66A |
| upper side - secondary | 52A with 58C along edge | NN155C with N74B along edge |
| lower side | NN155C | 52A with NN155C and N74B along edge |

*reference variety



Impatiens: 'Imtracorbu' (left) with reference variety 'Imtrarestar' (right)



Impatiens: 'Imtracorbu' (left) with reference variety 'Imtrarestar' (right)