



APPLICATIONS UNDER EXAMINATION

POINSETTIA

**POINSETTIA**  
*(Euphorbia pulcherrima)*

**Proposed denomination:** 'NPCW08122'  
**Trade name:** Christmas Feelings Select  
**Application number:** 07-6058  
**Application date:** 2007/12/10  
**Applicant:** Nils Klemm, Stuttgart, Germany  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Nils Klemm, Stuttgart, Germany

**Variety used for comparison:** 'NPCW02044' (Christmas Feelings Red)

**Summary:** *The largest bracts of 'NPCW08122' are shorter and narrower than the bracts of 'NPCW02044'. The lower side of the bract of 'NPCW08122' is red while the lower side of the bract of 'NPCW02044' is dark pink red.*

**Description:**

PLANT: branching present

STEM: medium green at middle third, weak to medium anthocyanin colouration at middle third, medium to strong anthocyanin on upper third

LEAF: ovate, wedge-shaped base, dark green on upper side, main vein green and red on upper side, none or few lobes, absent or weak curvature of main vein

PETIOLE: absent or very weak intensity of green colour on upper side, strong to very strong anthocyanin colouration on upper side, medium to strong anthocyanin on lower side

TRANSITIONAL LEAVES: very few partly bract coloured leaves, few fully bract coloured leaves, weak lobing, absent or weak curvature along main vein

BRACT: medium number of large coloured bracts, few to medium number of small coloured bracts, largest bract ovate, one colour on upper side, red (RHS 46B) on upper side, absent or very weak spotting on upper side, lower side red (RHS 47B), weak folding along main vein, no twisting, medium rugosity between veins

CYATHIUM: no deformation of glands, response time 8 weeks.

**Origin and Breeding:** The variety 'NPCW08122' originated from a mutation induced by irradiation of the poinsettia variety 'Christmas Feelings'. The irradiation was conducted in Stuttgart, Germany in February 2004. The new variety was discovered and selected in November 2004, based on its red bract colour.

**Tests and Trials:** Trials for 'NPCW08122' were conducted in a greenhouse in St. Catharines, Ontario . The trial included a total of 25 plants each of the candidate variety and reference variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on August 10, 2010. Observations and measurements were taken from 10 plants of each variety on December 1, 2010. All colour determinations were made using the 2007 Royal Horticultural Society Colour Chart.

**Comparison table for 'NPCW08122'**

	'NPCW08122'	'NPCW02044'*
<i>Length of largest bract (cm)</i>		
mean	14.5	16.7
std. deviation	1.75	0.55
<i>Width of largest bract (cm)</i>		
mean	8.3	9.8
std. deviation	0.56	0.67

Colour of bract (RHS)

lower side

47B

53C-D

\*reference variety



Poinsettia: 'NPCW08122' (left) with reference variety 'NPCW02044' (right)



Poinsettia: 'NPCW08122' (left) with reference variety 'NPCW02044' (right)

<b>Proposed denomination:</b>	<b>'NPCW08135'</b>
<b>Trade name:</b>	Christmas Season Red
<b>Application number:</b>	07-6057
<b>Application date:</b>	2007/12/10
<b>Applicant:</b>	Nils Klemm, Stuttgart, Germany
<b>Agent in Canada:</b>	BioFlora Inc., St. Thomas, Ontario
<b>Breeder:</b>	Nils Klemm, Stuttgart, Germany

**Varieties used for comparison:** 'Fismille' (Orion Red) and 'NPCW02044' (Christmas Feelings Red)

**Summary:** *The stems of 'NPCW08135' have absent or very weak anthocyanin colouration on the middle third while the stems of 'NPCW02044' have weak anthocyanin. The leaf blade of 'NPCW08135' is deltoid and ovate in shape while the leaf blades of the reference varieties are ovate. The leaf blade of 'NPCW08135' is narrower than the leaf blades of the reference varieties. 'NPCW08135' has many large coloured bracts while 'NPCW02044' has a medium number of large coloured bracts. The upper side of the bract of 'NPCW08135' is a slightly lighter red colour than the bracts of the reference varieties. The lower side of the bract is red to dark pink red for 'NPCW08135' while it is red for 'Fismille' and dark pink red for 'NPCW02044'.*

**Description:**

PLANT: branching present

STEM: medium green at middle third, absent or very weak anthocyanin colouration at middle third, absent or weak anthocyanin on upper third

LEAF: deltoid and ovate, truncate base, dark green on upper side, main vein green on upper side, none or few lobes, lobes shallow when present, absent or weak curvature of main vein

PETIOLE: very weak intensity of green colour on upper side, medium to strong anthocyanin colouration on upper side, medium anthocyanin on lower side

TRANSITIONAL LEAVES: very few partly bract coloured leaves, few fully bract coloured leaves, absent or weak lobing, absent or weak curvature along main vein

BRACT: many large coloured bracts, medium number of small coloured bracts, largest bract ovate, one colour on upper side, red (RHS 45B) on upper side, absent or very weak spotting on upper side, lower side red to dark pink red (RHS 46C-D), no folding along main vein, no twisting, weak to medium rugosity between veins

CYATHIUM GLANDS: yellow and orange, no deformation present, response time 7.5 weeks.

**Origin and Breeding:** The variety 'NPCW08135' originated from a pollination made in Stuttgart, Germany. The female parent was a proprietary seedling designated P 7851 and the male parent was a proprietary seedling designated P 639. Seedlings were selected from the cross in 2005 for criteria based on bract size, bract colour, bract shape, leaf quality and branching characteristics. One of these seedlings was designated 'NPCW08135' and was further evaluated in 2006 for bract shape, leaf colour, plant vigour and postharvest characteristics.

**Tests and Trials:** Trials for 'NPCW08135' were conducted in a greenhouse in St. Catharines, Ontario. The trial included a total of 25 plants each of the candidate variety and reference varieties. All plants were grown from rooted cuttings and transplanted into 15 cm pots on August 10, 2010. Observations and measurements were taken from 10 plants of each variety on December 1, 2010. All colour determinations were made using the 2007 Royal Horticultural Society Colour Chart.

**Comparison table for 'NPCW08135'**

	'NPCW08135'	'Fismille'*	'NPCW02044'*
<i>Leaf blade width (cm)</i>			
mean	7.5	8.81	8.6
std. deviation	0.83	0.81	0.63
<i>Colour of bract (RHS)</i>			
upper side	45B	46B	46B
lower side	46C-D	45C	53C-D

\*reference varieties



NPCW08135

Christmas Season Red

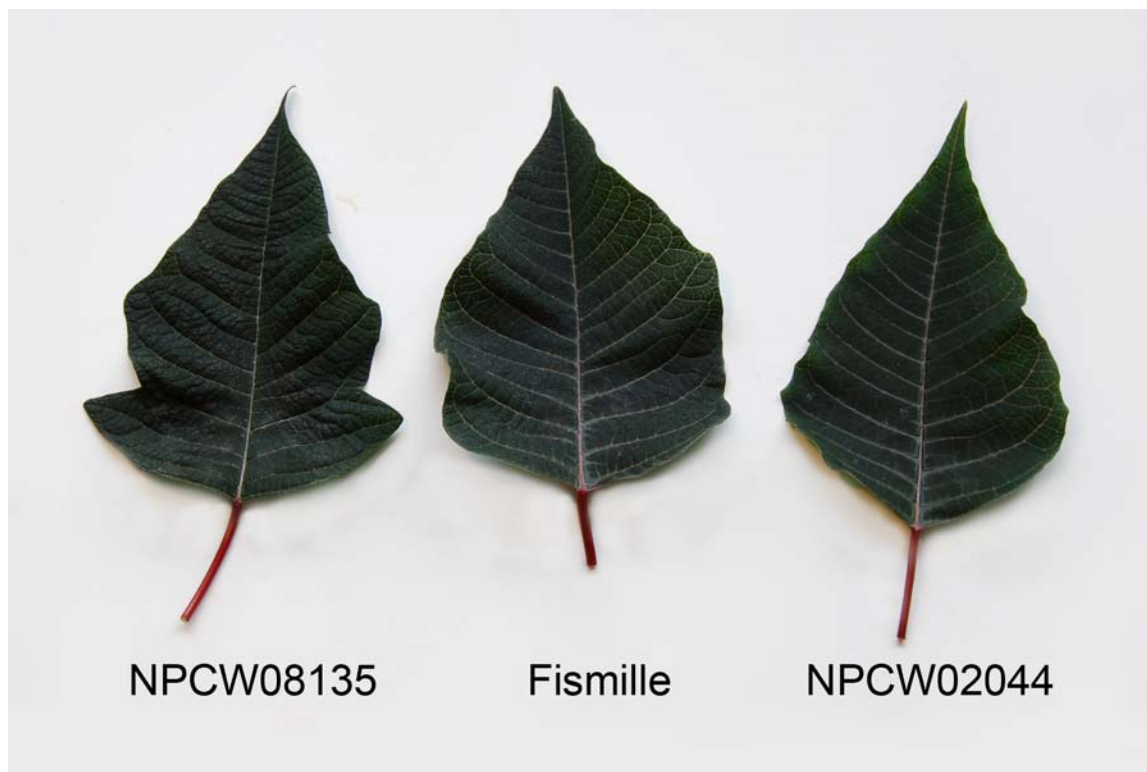
Fismille

Orion Red

NPCW02044

Christmas Feelings Red

Poinsettia: 'NPCW08135' (left) with reference varieties 'Fismille' (centre) and 'NPCW02044' (right)



NPCW08135

Fismille

NPCW02044

Poinsettia: 'NPCW08135' (left) with reference varieties 'Fismille' (centre) and 'NPCW02044' (right)



Poinsettia: 'NPCW08135' (left) with reference varieties 'Fismille' (centre) and 'NPCW02044' (right)

**Proposed denomination:** 'NPCW08141'  
**Trade name:** Christmas Feelings White  
**Application number:** 08-6131  
**Application date:** 2008/01/10  
**Applicant:** Nils Klemm, Stuttgart, Germany  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Nils Klemm, Stuttgart, Germany

**Variety used for comparison:** 'Merry White'

**Summary:** *The variety 'NPCW08141' has medium lobing on the transitional leaves and on the bracts while the variety 'Merry White' has absent or weak lobing on both. The largest bract of 'NPCW08141' is shorter than the largest bract of 'Merry White'.*

**Description:**

PLANT: branching present

STEM: weak to medium green at middle third, absent or very weak anthocyanin colouration at middle and upper third

LEAF: ovate, wedge-shaped base, dark green on upper side, main vein green on upper side, none to medium number of lobes, lobes shallow when present, absent or weak curvature of main vein

PETIOLE: weak intensity of green colour on upper side, absent or very weak anthocyanin colouration on upper side, absent or weak anthocyanin on lower side

TRANSITIONAL LEAVES: few partly bract coloured leaves, very few fully bract coloured leaves, medium lobing, absent or weak curvature along main vein

BRACT: few to medium number of large coloured bracts, few to medium number of small coloured bracts, largest bract ovate, one colour on upper side, yellow green (RHS 1D) on upper and lower side, absent or very weak spotting on upper side, weak to medium folding along main vein, no twisting, weak to medium rugosity between veins

CYATHIUM GLANDS: medium size, yellow, no deformation present, response time 8 weeks.

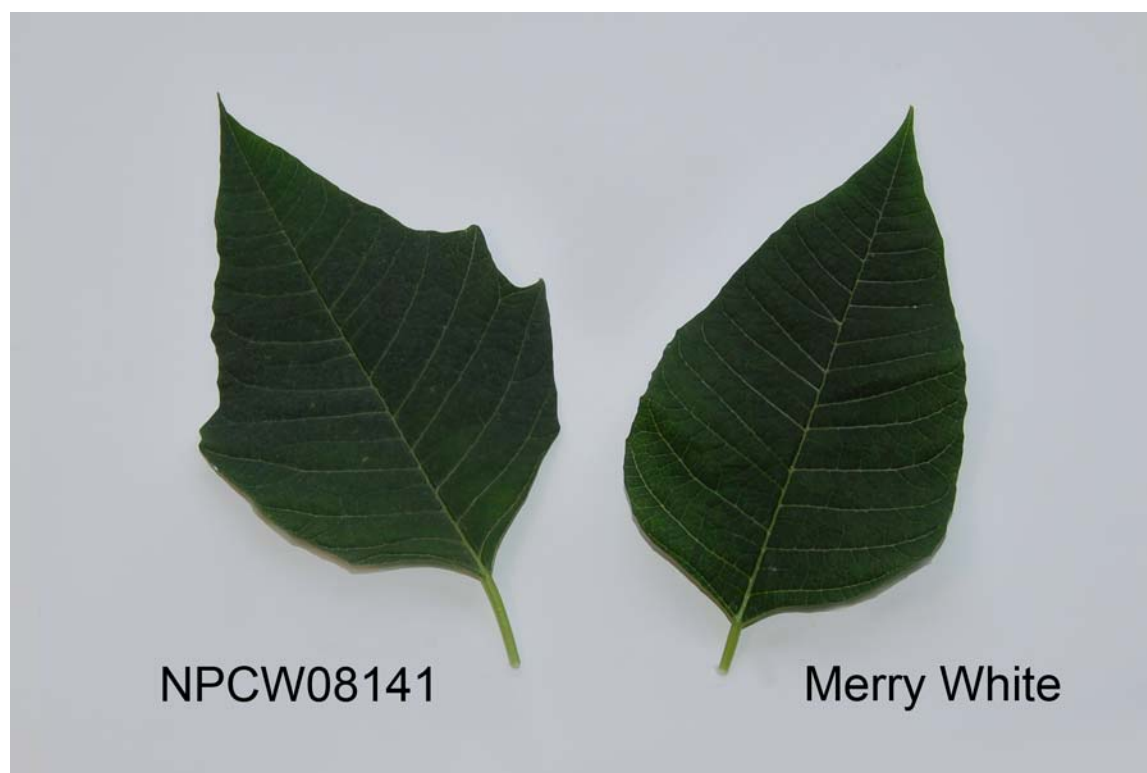
**Origin and Breeding:** The variety 'NPCW08141' originated from a mutation induced by irradiation of the poinsettia variety 'Christmas Feelings Sparkle'. The irradiation was conducted in Stuttgart, Germany. The new variety was discovered and selected in November 2006, based on its white bract colour.

**Tests and Trials:** Trials for 'NPCW08141' were conducted in a greenhouse in St. Catharines, Ontario. The trial included a total of 25 plants each of the candidate variety and reference variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on August 10, 2010. Observations and measurements were taken from 10 plants of each variety on December 1, 2010. All colour determinations were made using the 2007 Royal Horticultural Society Colour Chart.

**Comparison table for 'NPCW08141'**

	'NPCW08141'	'Merry White'*
<i>Length of largest bract (cm)</i>		
mean	15.8	18.3
std. deviation	0.91	2.64

\*reference variety



Poinsettia: 'NPCW08141' (left) with reference variety 'Merry White' (right)



Poinsettia: 'NPCW08141' (left) with reference variety 'Merry White' (right)

**Proposed denomination:** 'NPCW08153'  
**Trade name:** Christmas Eve  
**Application number:** 07-6056  
**Application date:** 2007/12/10  
**Applicant:** Nils Klemm, Stuttgart, Germany  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Nils Klemm, Stuttgart, Germany

**Variety used for comparison:** 'Christmas Beauty'

**Summary:** *The stems of 'NPCW08153' have absent or very weak anthocyanin colouration at the middle third while the stems of 'Christmas Beauty' have weak anthocyanin. The leaf blade of 'NPCW08153' has a truncate base while the leaf blade of 'Christmas Beauty' has a wedge-shaped base. The largest bract is wider for 'NPCW08153' than for 'Christmas Beauty'. The upper side of the bract of 'NPCW08153' is a slightly lighter red than the bract of 'Christmas Beauty'.*

**Description:**

PLANT: branching present

STEM: medium green at middle third, absent or very weak anthocyanin colouration at middle third, absent or weak anthocyanin on upper third

LEAF: ovate, truncate base, dark green on upper side, main vein green and red on upper side, none or few lobes, lobes very shallow when present, absent or weak curvature of main vein

PETIOLE: absent or very weak intensity of green colour on upper side, strong anthocyanin colouration on upper side, absent or weak anthocyanin on lower side

TRANSITIONAL LEAVES: very few partly bract coloured leaves, few fully bract coloured leaves, absent or weak lobing, absent or weak curvature along main vein

**BRACT:** medium number of large coloured bracts, few to medium number of small coloured bracts, largest bract ovate, one colour on upper side, red (RHS 45B) on upper side, absent or very weak spotting on upper side, lower side red (RHS 45C/47B), no folding along main vein, mostly absent twisting, medium rugosity between veins

**CYATHIUM GLANDS:** medium size, yellow, no deformation present, response time 7.5 weeks.

**Origin and Breeding:** The variety 'NPCW08153' originated from a pollination made in Stuttgart, Germany in 2004. The female parent was the variety 'Christmas Star' and the male parent was unknown. Seedlings were selected from the cross in 2005 for criteria based on bract size, bract colour, bract shape, leaf quality and branching characteristics. One of these seedlings was designated 'NPCW08153' and was further evaluated in 2006 for bract shape, plant vigour and postharvest characteristics.

**Tests and Trials:** Trials for 'NPCW08153' were conducted in a greenhouse in St. Catharines, Ontario. The trial included a total of 25 plants each of the candidate variety and reference variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on August 10, 2010. Observations and measurements were taken from 10 plants of each variety on December 1, 2010. All colour determinations were made using the 2007 Royal Horticultural Society Colour Chart.

**Comparison table for 'NPCW08153'**

	'NPCW08153'	'Christmas Beauty'*
<i>Width of largest bract (cm)</i>		
mean	9.5	8.2
std. deviation	0.65	0.52
<i>Colour of bract (RHS)</i>		
upper side	45B	46B
lower side	45C/47B	53B (redder than)

\*reference variety



Poinsettia: 'NPCW08153' (left) with reference variety 'Christmas Beauty' (right)





Poinsettia: 'NPCW08153' (left) with reference variety 'Christmas Beauty' (right)

**Proposed denomination:** 'PER1139'  
**Trade name:** Jubilee  
**Application number:** 09-6671  
**Application date:** 2009/07/02  
**Applicant:** Paul Ecke Ranch, Inc., Encinitas, California, United States of America  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Ruth Kobayashi, Carlsbad, California, United States of America

**Variety used for comparison:** 'Prestige Red'

**Summary:** *The leaf blades of 'PER1139' have absent to medium number of lobes which are medium in depth when present while the leaf blades of 'Prestige Red' have absent to few lobes which are shallow when present. The largest bract of 'PER1139' is shorter than the largest bract of 'Prestige Red'. The upper side of the bract is red for 'PER1139' while it is dark purple red to red for 'Prestige Red'.*

**Description:**

PLANT: branching present

STEM: medium green at middle third, medium anthocyanin colouration at middle third and upper third

LEAF: ovate, truncate base, dark green on upper side, main vein green and red on upper side, none to medium number of lobes, lobes medium in depth when present, absent or weak curvature of main vein

PETIOLE: no green colour on upper side, strong anthocyanin colouration on upper side, medium to strong anthocyanin on lower side

TRANSITIONAL LEAVES: very few partly bract coloured leaves, few fully bract coloured leaves, weak lobing, absent or weak curvature along main vein

BRACT: medium to many large coloured bracts, few small coloured bracts, largest bract ovate, one colour on upper side, red (RHS 45B) on upper side, absent or very weak spotting on upper side, lower side red (RHS 45C), no folding along main vein, no twisting, very weak to weak rugosity between veins

CYATHIUM GLANDS: small to medium, yellow, no deformation present.

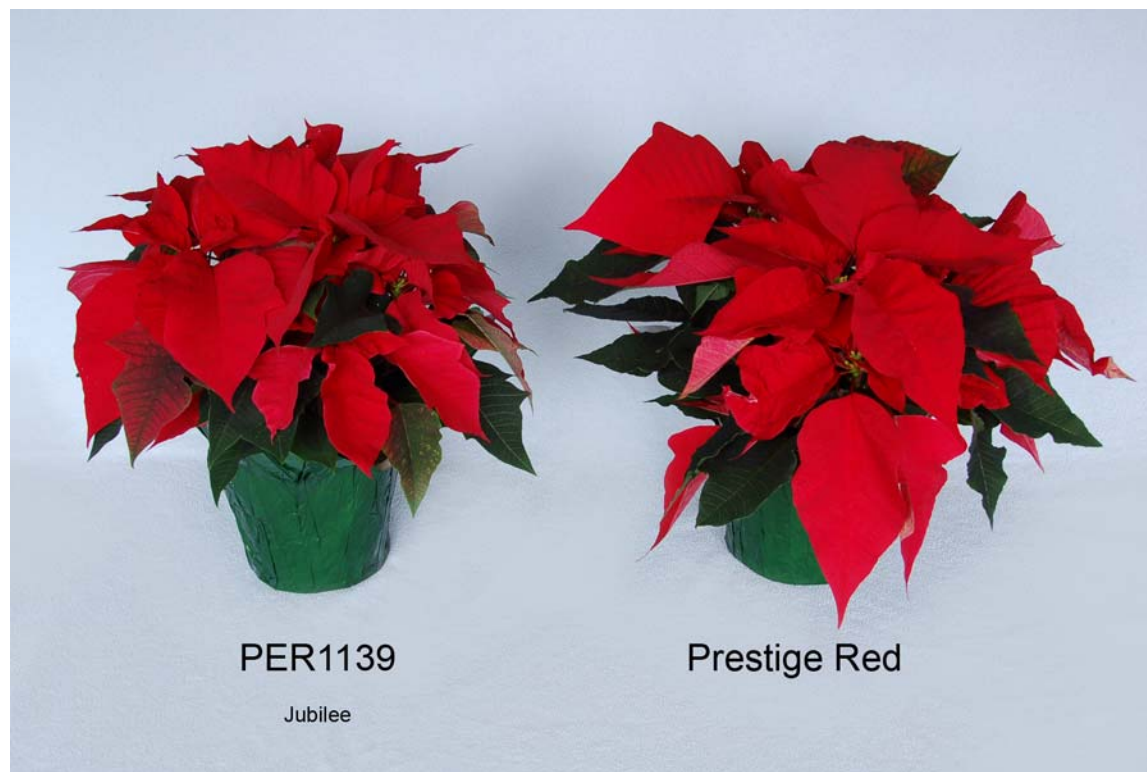
**Origin and Breeding:** The variety 'PER1139' was discovered at the Paul Ecke Ranch in Encinitas, California, USA in December 2002. The variety was selected for its large dark red bracts, upright branch habit and dark green foliage.

**Tests and Trials:** Trials for 'PER1139' were conducted in a greenhouse in St. Catharines, Ontario. The trial included a total of 25 plants each of the candidate variety and reference variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on August 18, 2010. Observations and measurements were taken from 10 plants of each variety on December 2, 2010. All colour determinations were made using the 2007 Royal Horticultural Society Colour Chart.

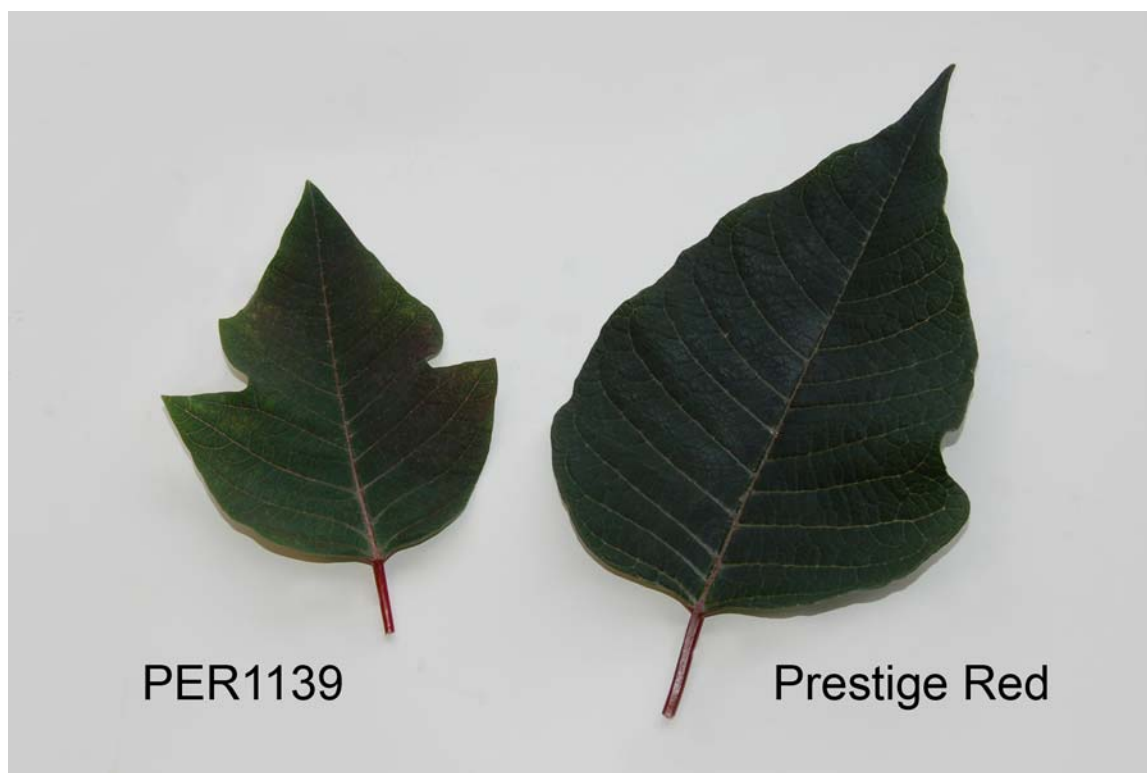
**Comparison table for 'PER1139'**

	'PER1139'	'Prestige Red'
<i>Length of largest bract (cm)</i>		
mean	13.8	15.0
std. deviation	0.86	0.80
<i>Colour of bract (RHS)</i>		
upper side	45B	46A-B
lower side	45C	46C (darker than)

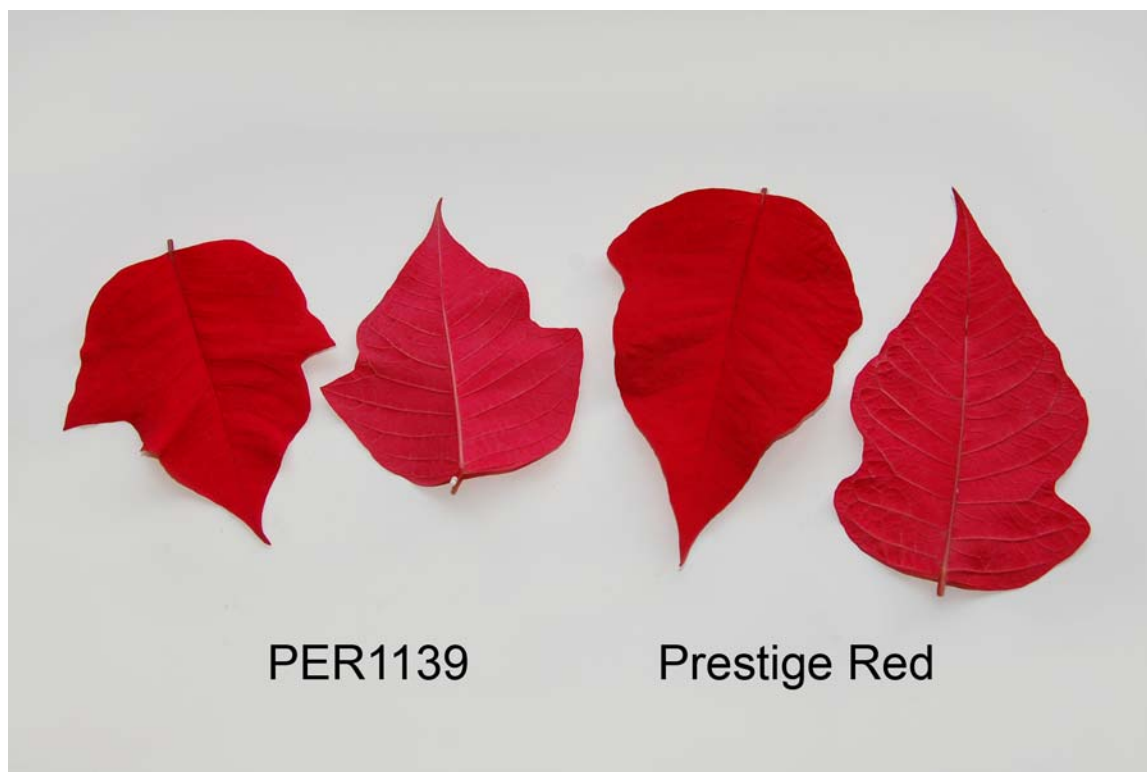
\*reference variety



Poinsettia: 'PER1139' (left) with reference variety 'Prestige Red' (right)



Poinsettia: 'PER1139' (left) with reference variety 'Prestige Red' (right)



Poinsettia: 'PER1139' (left) with reference variety 'Prestige Red' (right)

**Proposed denomination:** 'PER1232'  
**Trade name:** Solstice Red  
**Application number:** 09-6672  
**Application date:** 2009/07/02  
**Applicant:** Paul Ecke Ranch, Inc., Encinitas, California, United States of America  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Ruth Kobayashi, Carlsbad, California, United States of America

**Variety used for comparison:** 'Prestige Red'

**Summary:** *The stem of 'PER1232' has absent or very weak anthocyanin colouration on the middle third and absent or weak anthocyanin on the upper third while the stem of 'Prestige Red' has medium anthocyanin on the stem. The leaf blade of 'PER1232' is narrower than the leaf blade of 'Prestige Red'. The lower side of the bract is dark pink red for 'PER1232' while it is dark red for 'Prestige Red'. The bracts of 'PER1232' have medium rugosity between the veins while the bracts of 'Prestige Red' have weak rugosity.*

**Description:**

PLANT: branching present

STEM: medium green at middle third, absent or very weak anthocyanin colouration at middle third, absent or weak anthocyanin on upper third

LEAF: ovate, truncate base, dark green on upper side, main vein green and red on upper side, none or few lobes, absent or weak curvature of main vein

PETIOLE: absent to very weak intensity of green colour on upper side, strong anthocyanin colouration on upper side, medium to strong anthocyanin on lower side

TRANSITIONAL LEAVES: very few partly bract coloured leaves, very few fully bract coloured leaves, no lobing, no curvature along main vein

BRACT: medium number of large coloured bracts, few to medium number of small coloured bracts, largest bract ovate, one colour on upper side, dark purple red to red (RHS 46A-B) on upper side, absent or very weak spotting on upper side, lower side dark pink red (RHS 53C-D), weak folding along main vein, no twisting, medium rugosity between veins

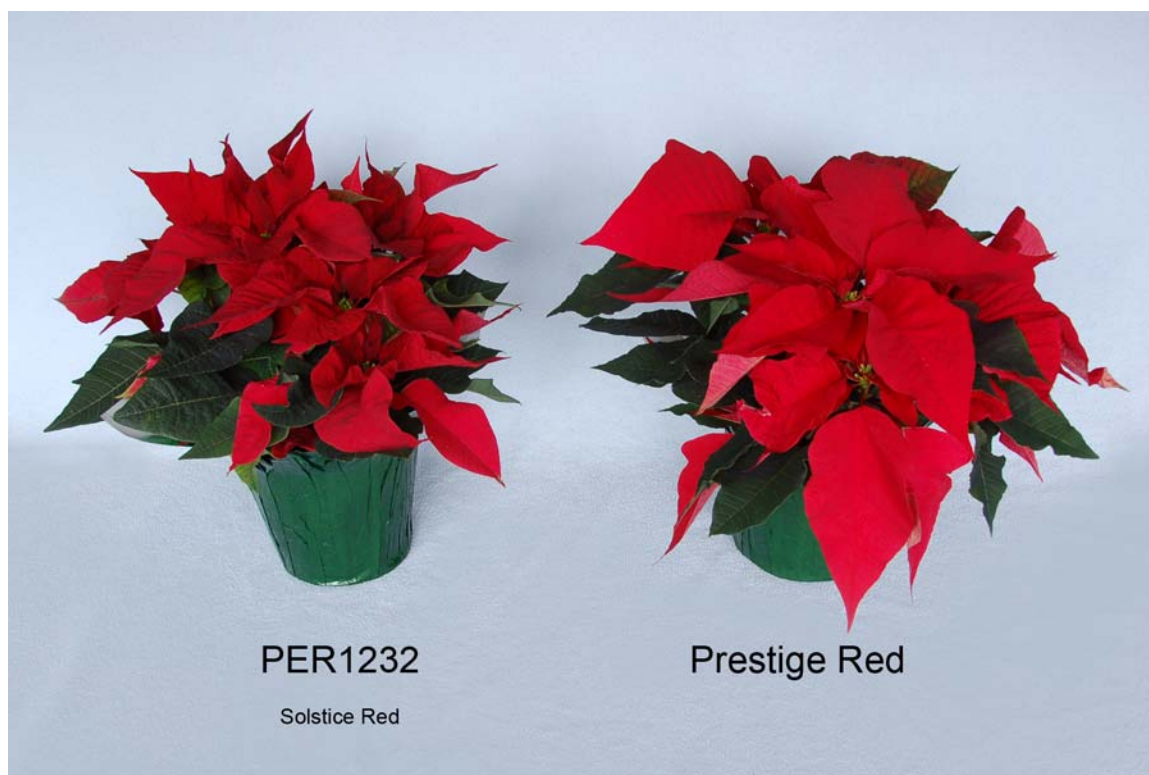
CYATHIUM GLANDS: very small, yellow, no deformation present.

**Origin and Breeding:** The variety 'PER1232' was discovered at the Paul Ecke Ranch in Encinitas, California, USA in December 2005. The variety was selected for its large dark red bracts, moderately vigorous habit and dark green foliage.

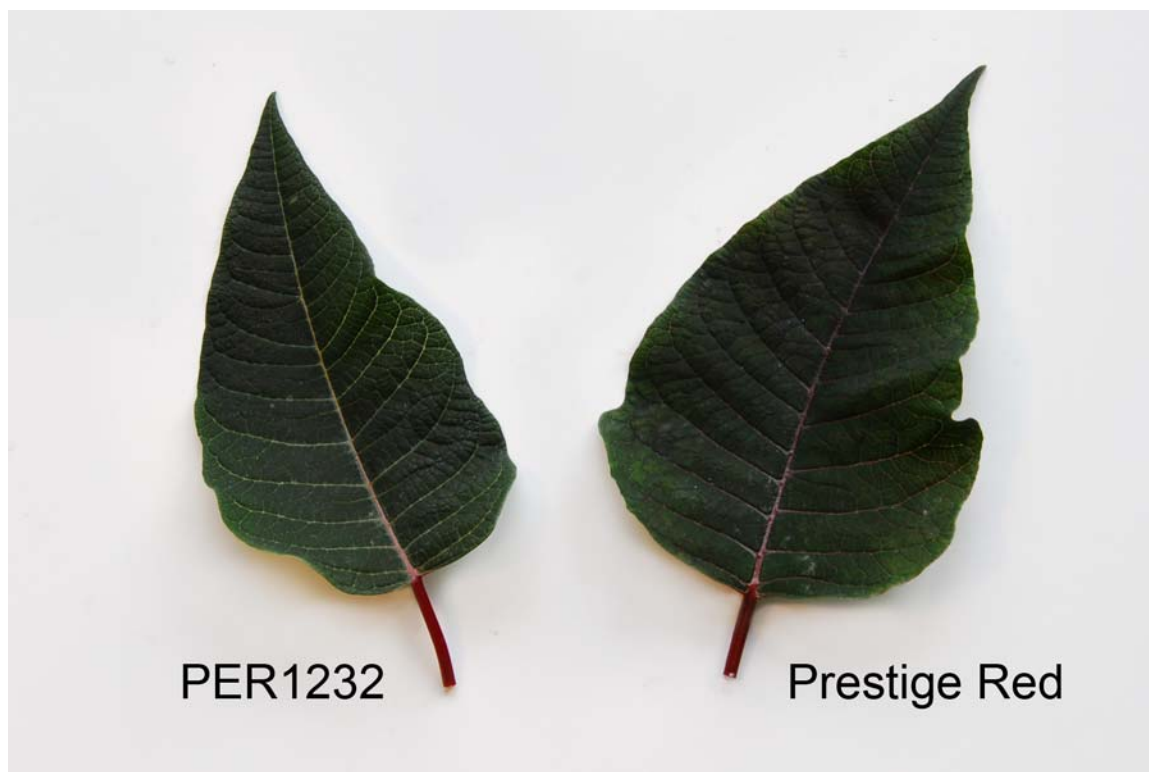
**Tests and Trials:** Trials for 'PER1232' were conducted in a greenhouse in St. Catharines, Ontario. The trial included a total of 25 plants each of the candidate variety and reference variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on August 18, 2010. Observations and measurements were taken from 10 plants of each variety on December 2, 2010. All colour determinations were made using the 2007 Royal Horticultural Society Colour Chart.

**Comparison table for 'PER1232'**

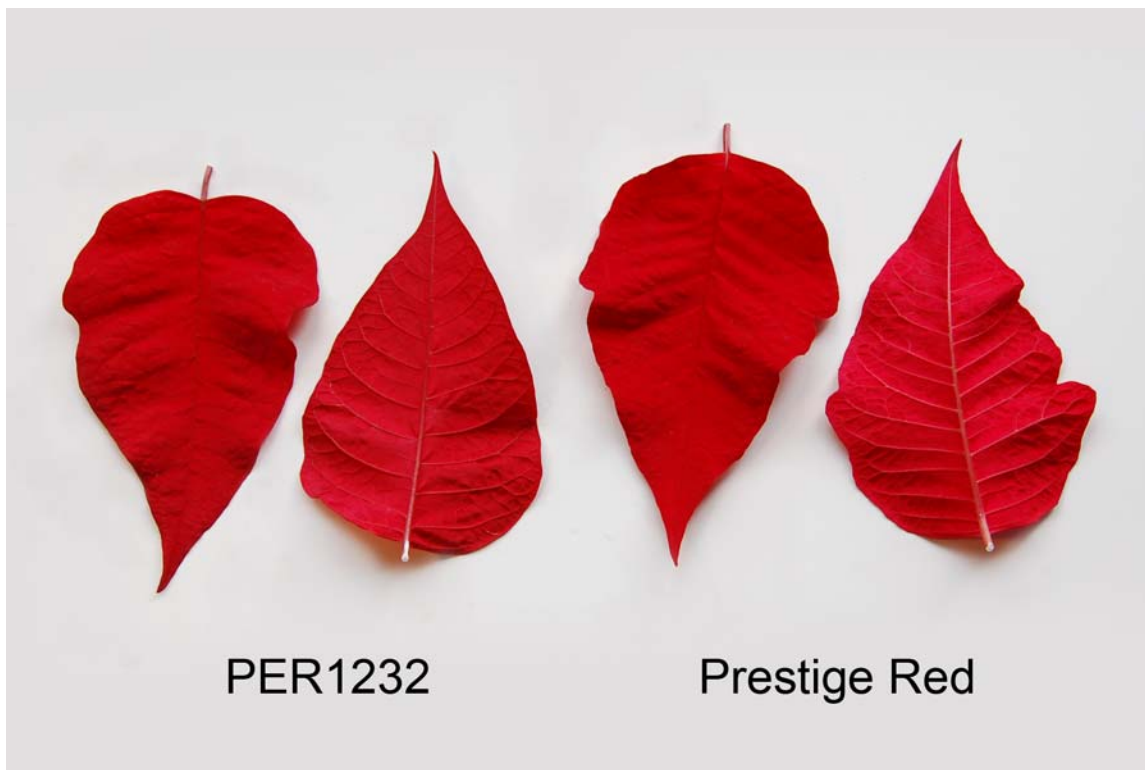
	'PER1232'	'Prestige Red'*
<i>Leaf width (cm)</i>		
mean	7.2	8.3
std. deviation	0.33	0.80
<i>Colour of bract (RHS)</i>		
lower side	53C-D	46C (darker than)
*reference variety		



Poinsettia: 'PER1232' (left) with reference variety 'Prestige Red' (right)



Poinsettia: 'PER1232' (left) with reference variety 'Prestige Red' (right)



Poinsettia: 'PER1232' (left) with reference variety 'Prestige Red' (right)

**Proposed denomination:** 'PER6904'  
**Trade name:** Freedom Early Pink  
**Application number:** 07-5965  
**Application date:** 2007/07/13  
**Applicant:** Paul Ecke Ranch, Inc., Encinitas, California, United States of America  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Ruth Kobayashi, Paul Ecke Ranch, Inc., Carlsbad, California, United States of America

**Variety used for comparison:** 'Peterstar Pink'

**Summary:** *The upper side of the leaf blade is dark green for 'PER6904' while it is medium green for 'Peterstar Pink'. The intensity of the green colour on the upper side of the petiole of 'PER6904' is weak while it is absent or very weak for 'Peterstar Pink'. The petiole of 'PER6904' has weak to medium anthocyanin colouration on the upper side while the petiole of 'Peterstar Pink' has absent or very weak anthocyanin. The largest bract is wider for 'PER6904' than for 'Peterstar Pink'. The upper side of the bract of 'PER6904' is lighter in colour than the bract of 'Peterstar Pink'.*

**Description:**

PLANT: branching present

STEM: medium green at middle third, absent or very weak anthocyanin colouration at middle third, no anthocyanin on upper third

LEAF: ovate, rounded to wedge-shaped base, dark green on upper side, main vein green on upper side, none or few lobes, lobes shallow when present, absent or weak curvature of main vein

PETIOLE: weak intensity of green colour on upper side, weak to medium anthocyanin colouration on upper side, absent or weak anthocyanin on lower side

TRANSITIONAL LEAVES: very few partly bract coloured leaves, few fully bract coloured leaves, absent or weak lobing, absent or weak curvature along main vein

**BRACT:** medium to many large coloured bracts, very few small coloured bracts, largest bract ovate, one colour on upper side, dark pink red (RHS 51B) on upper side with darker red pink (RHS 51A) veins, small inner bracts dark purple red to dark pink red (RHS 53B-C), absent or very weak spotting on upper side, lower side red pink (RHS 51C) aging to light red pink (RHS 36A), no folding along main vein, no twisting, weak to medium rugosity between veins.

**Origin and Breeding:** The variety 'PER6904' was discovered at the Paul Ecke Ranch in Encinitas, California, USA in August 2004. The variety was selected for its very early bloom date, moderately vigorous growth habit, pink bract colour and dark green foliage.

**Tests and Trials:** Trials for 'PER6904' were conducted in a greenhouse in St. Catharines, Ontario. The trial included a total of 25 plants each of the candidate variety and reference variety. All plants were grown from rooted cuttings and transplanted into 11 cm pots on August 27, 2010. Observations and measurements were taken from 10 plants of each variety on December 2, 2010. All colour determinations were made using the 2007 Royal Horticultural Society Colour Chart.

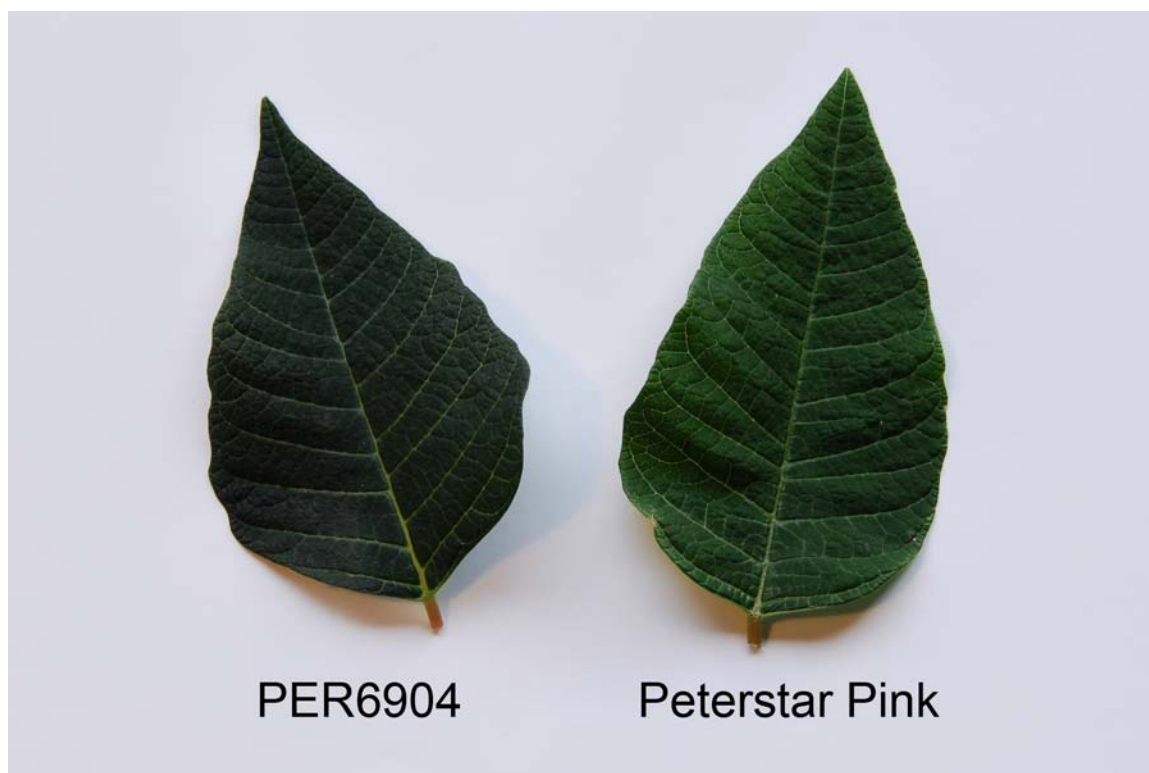
**Comparison table for 'PER6904'**

	'PER6904'	'Peterstar Pink'*
<i>Width of largest bract (cm)</i>		
mean	7.6	6.1
std. deviation	0.40	0.33
<i>Colour of bract (RHS)</i>		
upper side - lower bracts	51B, veins 51A	51A, 51B at margin, veins 50A
upper side - inner bracts	53B-C	46C

\*reference variety



Poinsettia: 'PER6904' (left) with reference variety 'Peterstar Pink' (right)



Poinsettia: 'PER6904' (left) with reference variety 'Peterstar Pink' (right)



Poinsettia: 'PER6904' (left) with reference variety 'Peterstar Pink' (right)