



APPLICATIONS UNDER EXAMINATION

SUMMERSWEET

SUMMERSWEET
(Clethra alnifolia)

Proposed denomination: 'Caleb'
Trade name: Vanilla Spice
Application number: 08-6414
Application date: 2008/07/29
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: 'Hummingbird'

Summary: *The pubescence on the petioles of 'Caleb' is sparse while that on 'Hummingbird' is dense. The inflorescence of 'Caleb' is larger than that of 'Hummingbird'. 'Caleb' has longer corolla lobes than 'Hummingbird'.*

Description:

PLANT: vegetatively propagated, shrub type, upright-bushy growth habit, medium degree of branching, dense foliage
STEM: light brown mature shoot, light green brown young shoot, absent or very weak anthocyanin colouration, absent or very sparse pubescence, rounded with rough texture

LEAF: opposite arrangement, simple type

LEAF BLADE: obovate, acuminate apex, cuneate and obtuse base, serrate margin, absent or very sparse pubescence on upper and lower sides, upper side light green when young, upper side dark green when mature, lower side light green/grey when young, lower side medium green/grey when mature

PETIOLE: present, sparse pubescence, yellow to light green

FLOWERING: short to medium period

PEDUNCLE: present, weak anthocyanin colouration, dense pubescence

INFLORESCENCE: terminal raceme type, dense, narrow elliptic bud, white (RHS 155B) bud

COROLLA: rotate and cupped

COROLLA LOBE: five, free, white (RHS 155B) on upper and lower sides

ANTHER: white

POLLEN: yellow

Origin and Breeding: 'Caleb' originated from an open pollinated cross made between the female parent variety 'Ruby Spice' and pollen from an unknown male parent in the fall of 2003 in Grand Haven, Michigan, USA. The new Clethra variety was developed by the breeder, Timothy D. Wood, an employee of Spring Meadow Nursery in Grand Haven, Michigan. 'Caleb' was selected in the fall of 2006 based on flower size, foliage characteristics and good performance. Asexual reproduction by softwood cuttings was first conducted in the spring of 2007 in Grand Haven, Michigan.

Tests and Trials: Trials for 'Caleb' were conducted in an outdoor irrigated container trial during the summer of 2010, in St. Thomas, Ontario. The trial included a total of 15 shrubs each of the candidate and reference varieties. All shrubs were grown from 5.7 cm liners planted into 7.5 litre containers in May 2009. Observations and measurements were taken from 10 plants of each variety on July 13, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Caleb'

	'Caleb'	'Hummingbird'*
<i>Inflorescence diameter (cm)</i>		
mean	3.5	2.8
std. deviation	0.20	0.20

Corolla lobe length (mm)

mean	10.6	8.7
std. deviation	1.07	0.48

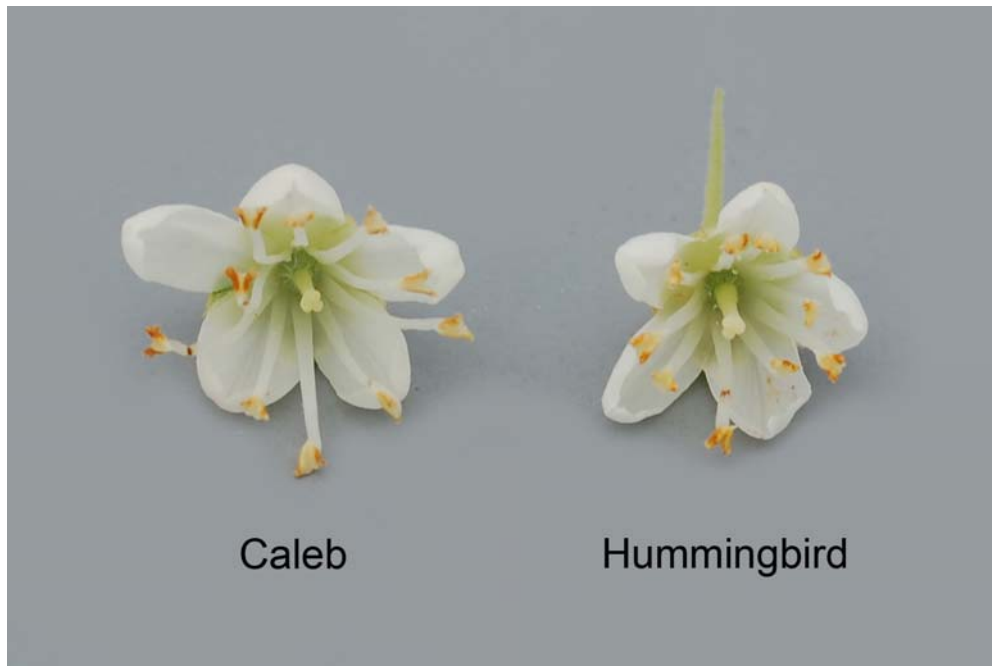
*reference variety



Summersweet: 'Caleb' (left) with reference variety 'Hummingbird' (right)



Summersweet: 'Caleb' (left) with reference variety 'Hummingbird' (right)



Summersweet: 'Caleb' (left) with reference variety 'Hummingbird' (right)

Proposed denomination: 'Crystalina'
Trade name: Sugartina
Application number: 09-6728
Application date: 2009/09/17
Applicant: North Carolina State University, Raleigh, North Carolina, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Thomas G. Ranney, North Carolina State University, Arden, North Carolina, United States of America

Variety used for comparison: 'Caleb' (Vanilla Spice)

Summary: *The plants of 'Crystalina' are narrower than those of 'Caleb'. The petioles of 'Crystalina' have dense pubescence while those of 'Caleb' have sparse pubescence. 'Crystalina' flowers earlier than 'Caleb'. The inflorescence of 'Crystalina' is smaller than that of 'Caleb'.*

Description:

PLANT: vegetatively propagated, shrub type, medium degree of branching, dense foliage

STEM: grey-brown mature shoot, light green young shoot, absent or very weak anthocyanin colouration, absent or very sparse pubescence, rounded with rough texture

LEAF: opposite arrangement, simple type

LEAF BLADE: obovate, acuminate apex, cuneate base, serrate margin, absent or very sparse pubescence on upper and lower sides, young leaf light green on upper and lower sides, mature leaf dark green on upper side, mature leaf medium green/grey on lower side, no variegation

PETIOLE: present, dense pubescence, yellow to light green

FLOWERING: short to medium period

PEDUNCLE: present, absent or very weak anthocyanin colouration, strong pubescence

INFLORESCENCE: dense, ovate bud, white (RHS 155A) bud

COROLLA: rotate and cupped

COROLLA LOBE: five, free, white (RHS 155B) on upper and lower sides

ANTHER: white

POLLEN: yellow

Origin and Breeding: ‘Crystalina’ originated from an open pollinated cross between the female parent *Clethra alnifolia* ‘Ruby Spice’ and pollen from an unknown male parent conducted in 2003 at North Carolina State University, Mills River, North Carolina, USA. The new *Clethra* was a product of a formal breeding program developed by the breeder Thomas G. Ranney at North Carolina State University. There were approximately 1,500 seedlings that resulted from the initial cross. ‘Crystalina’ was selected from these seedlings in 2006 based on growth habit, length of flower raceme and number of flowers per raceme. Asexual propagation by stem cuttings was first conducted in August 2006 in Mills River, North Carolina.

Tests and Trials: Trials for ‘Crystalina’ were conducted in an outdoor irrigated container trial during the summer of 2010, in St. Thomas, Ontario. The trial included a total of 15 shrubs each of the candidate and reference varieties. All shrubs were grown from 5.7 cm liners planted into 7.5 litre containers in May 2009. Observations and measurements were taken from 10 plants of each variety on July 13, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘Crystalina’

	‘Crystalina’	‘Caleb’*
<i>Plant width (cm)</i>		
mean	54.5	75.7
std. deviation	3.98	2.87
<i>Time of flowering date</i>		
date	June 25, 2010	July 9, 2010
<i>Inflorescence diameter (cm)</i>		
mean	2.7	3.5
std. deviation	0.25	0.20

*reference variety



Summersweet: ‘Crystalina’ (left) with reference variety ‘Caleb’ (right)



Summersweet: 'Crystalina' (left) with reference variety 'Caleb' (right)



Summersweet: 'Crystalina' (left) with reference variety 'Caleb' (right)