



APPLICATIONS UNDER EXAMINATION

HYDRANGEA

HYDRANGEA
(Hydrangea arborescens)

Proposed denomination: 'Abetwo'
Trade name: Incrediball
Application number: 08-6417
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: 'Annabelle'

Summary: *The plants of 'Abetwo' are semi-upright mounding with strong reflowering after spring pruning while those of 'Annabelle' are upright with reflowering ranging from absent to weak after spring pruning. The sterile flowers of 'Abetwo' have sepals which are more white than those of 'Annabelle'.*

Description:

PLANT: non-climbing type, strong reflowering after spring pruning, semi-upright mounding growth habit
STEM: no fasciation, green and brownish

LEAF BLADE: no lobing, ovate, tip ranging from short to long, cordate base, medium incision depth, no variegation, medium green, absent or weak glossiness on upper side, medium blistering

INFLORESCENCE: globular, fertile flowers inconspicuous or slightly conspicuous, mid season flowering

STERILE FLOWER: single, weak degree of overlapping of sepals, margin incisions ranging from absent to present on some sepals, white (RHS NN155D) sepals

FERTILE FLOWER: white petals

Origin and Breeding: 'Abetwo' originated from an open pollinated cross between the female parent variety 'Annabelle' and pollen from an unknown male parent in Grand Haven, Michigan, United States in 2002. The new Hydrangea variety was developed by the breeder, Timothy D. Wood, an employee of Spring Meadow Nursery in Grand Haven, Michigan. 'Abetwo' was selected in 2004 based on stem strength, inflorescence size and largely sterile mophead-type flowers. Asexual reproduction of 'Abetwo' by softwood cuttings was first conducted in 2004 in Grand Haven, Michigan, United States.

Tests and Trials: Trials for 'Abetwo' 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 'quick turn' potted liners, transplanted into 7.5 liter containers in the spring of 2009. Trials were arranged in rows with 1 m spacing between plants. Due to warm spring temperatures, the trial plants were cut back in May 2010. As a result flower characteristics are smaller in size than typically observed. Observations and measurements were taken from 10 plants of each variety on July 19, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Abetwo'

	'Abetwo'	'Annabelle'*
Colour of sterile flower (RHS)		
sepals	NN155D	NN155A

*reference variety



Hydrangea: 'Abetwo' (left) with reference variety 'Annabelle' (right)



Hydrangea: 'Abetwo' (left) with reference variety 'Annabelle' (right)



Hydrangea: 'Abetwo' (left) with reference variety 'Annabelle' (right)

Proposed denomination: 'NCHAI'
Trade name: Invincibelle Spirit
Application number: 08-6471
Application date: 2008/11/28
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: 'Annabelle'

Summary: *The leaves of 'NCHAI' are smaller and have shorter petioles than those of 'Annabelle'. The calyx of 'NCHAI' are smaller than those of 'Annabelle'. The sepals of the sterile flowers of 'NCHAI' differ in colour from those of 'Annabelle'.*

Description:

PLANT: non-climbing type, upright growth habit
 STEM: no fasciation, green and brownish

LEAF BLADE: no lobing, elliptic, short tip, obtuse base, shallow incisions, medium green, moderate glossiness on upper side, weak blistering

INFLORESCENCE: globular, fertile flowers inconspicuous or slightly conspicuous, mid-season flowering

STERILE FLOWER: single type, absent or very weak overlapping of sepals, margin incisions absent on all sepals, brown purple (RHS 186B) buds, white to violet (RHS 155B-75D) with brown purple (RHS 185D) veins when fully opened, brown purple to blue pink (RHS 186B-C) with brown purple (RHS 185B) veins when aged

FERTILE FLOWER: pink petals

Origin and Breeding: 'NCHAI' originated from an open pollinated cross conducted in an isolation block in June 2005 between the female parent seedling 'H2005-045-061' and pollen from a group of sibling plants. The new variety was bred and developed by the breeder Thomas R. Ranney, an employee at North Carolina State University, Mountain Horticultural Crops Research Station, Mills River, North Carolina, United States. 'NCHAI' was selected as a seedling from the resultant

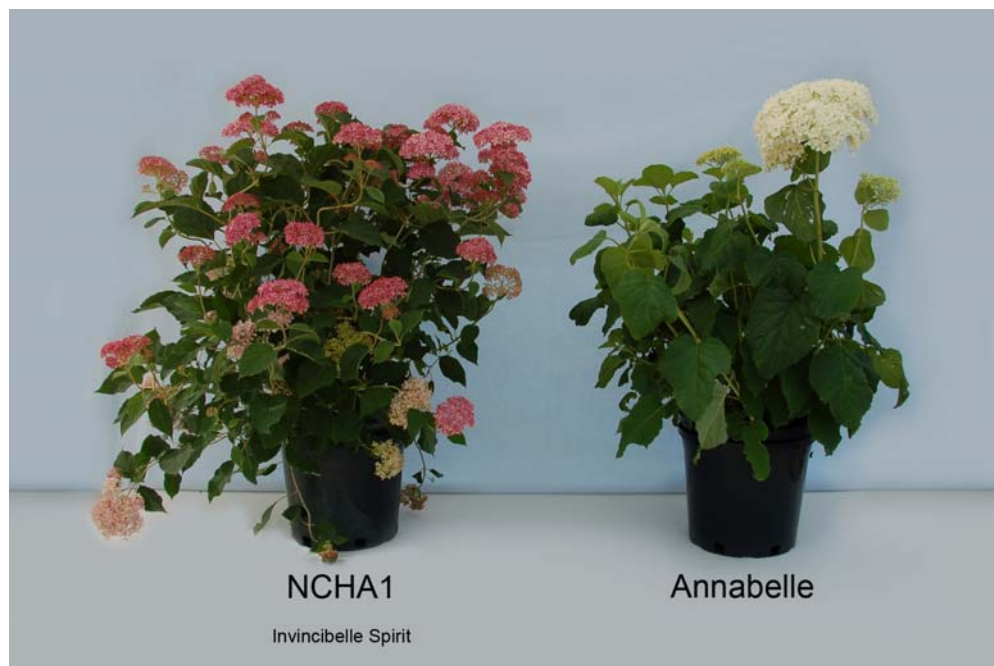
progeny in June 2006 based on sepal colour, plant growth habit, branching characteristics and prevalence of sterile flowers in the inflorescence. The first asexual propagation of 'NCHA1' was carried out in June 2006 by stem cuttings at the N.C.S.U., Mountain Horticultural Crops Research Station, Mills River, North Carolina, United States.

Tests and Trials: Trials for 'NCHA1' 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 'quick turn' potted liners, transplanted into 7.5 liter containers in the spring of 2009. Trials were arranged in rows with 1 m spacing between plants. Due to warm spring temperatures, the trial plants were cut back in May 2010. As a result flower characteristics are smaller in size than typically observed. Observations and measurements were taken from 10 plants of each variety on July 19, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

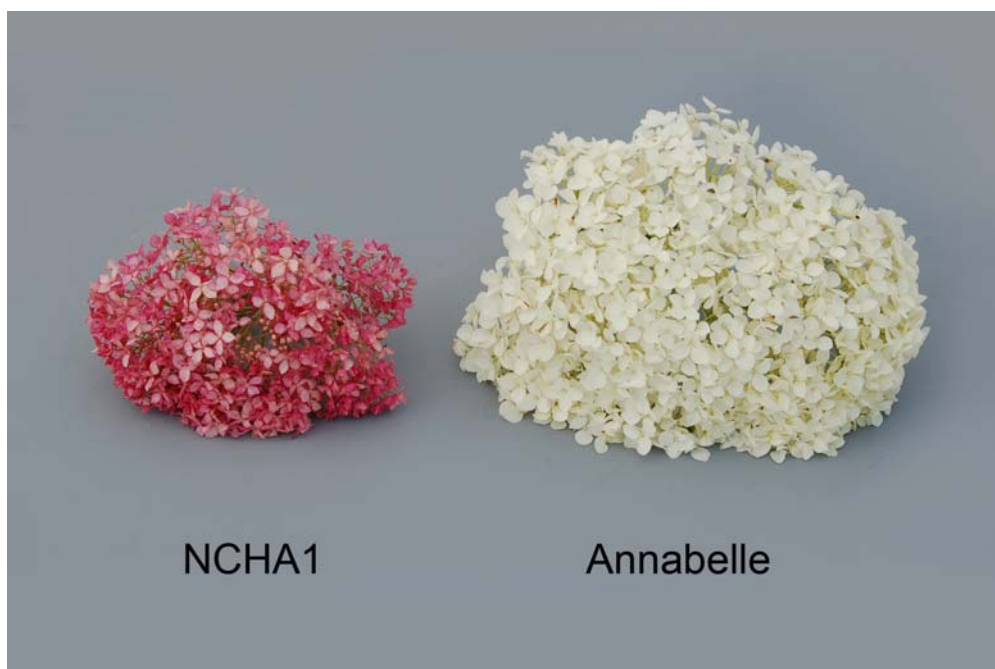
Comparison table for 'NCHA1'

	'NCHA1'	'Annabelle'*
<i>Leaf blade length (cm)</i>		
mean	10.7	14.3
std. deviation	0.86	1.54
<i>Leaf blade width (cm)</i>		
mean	7.2	11.8
std. deviation	0.57	0.95
<i>Petiole length (cm)</i>		
mean	4.2	7.1
std. deviation	0.74	1.25
<i>Calyx diameter (mm)</i>		
mean	11.1	15.2
std. deviation	1.29	1.99
<i>Colour of sterile flower sepals (RHS)</i>		
fully opened	155B to 75D with 185D veins	NN155A

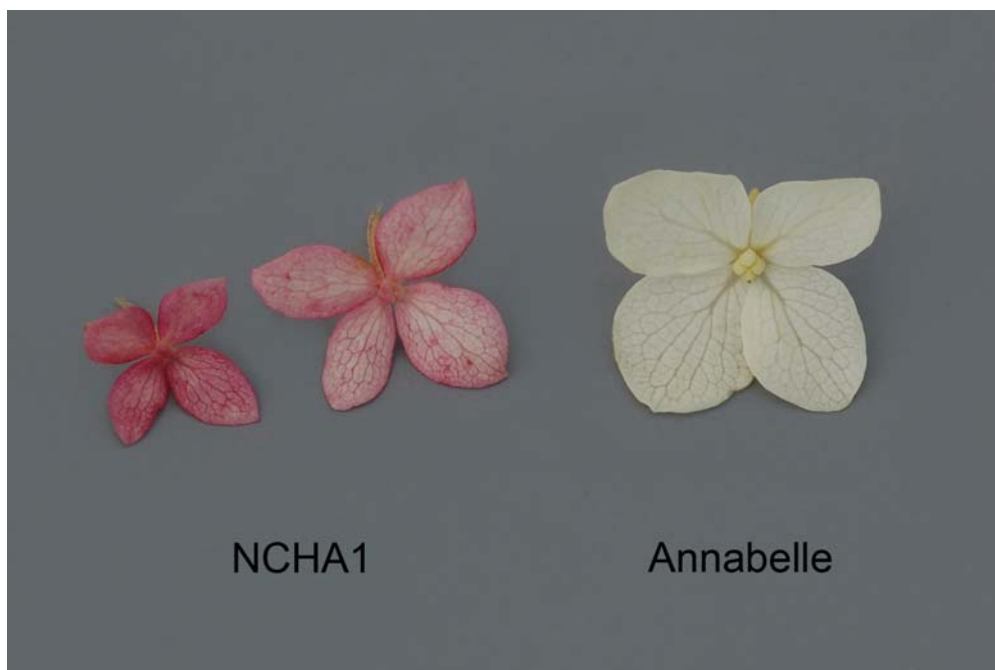
*reference variety



Hydrangea: 'NCHA1' (left) with reference variety 'Annabelle' (right)



Hydrangea: 'NCHA1' (left) with reference variety 'Annabelle' (right)



Hydrangea: 'NCHA1' (left) with reference variety 'Annabelle' (right)