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CERCIS TREE NAMED 'NCCC1'

(50) Latin Name: *Cercis canadensis* Varietal Denomination: **NCCC1**

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(57) ABSTRACT

'NCCC1' is a new cultivar of eastern redbud tree with unique, multi-colored foliage that includes a range and combination of colors including green, white, purple, and pink on emerging and young foliage.

3 Drawing Sheets

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Latin name of the genus and species: The Latin name of the novel plant variety disclosed herein is *Cercis canadensis*.

Variety denomination: The inventive variety of the *Cercis* canadensis disclosed herein has been given the varietal denomination 'NCCC1'.

BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct hybrid $_{10}$ cultivar of Cercis canadensis herein referred to by the cultivar name 'NCCC1'. This new redbud was developed through a breeding program at North Carolina State University, Mills River, N.C. 'NCCC1' was selected from a population of second generation descendants from a hybrid 15 cross between Cercis canadensis 'Forest Pansy' (U.S. Plant Pat. No. 2,556) (male parent) and *Cercis canadensis* 'Silver Cloud' (non-patented) (female parent). Plants of the original F₁ hybrids between 'Forest Pansy' and 'Silver Cloud' were planted in Mills River, N.C., and isolated from other *Cercis*. ²⁰ Open pollenated seeds were collected from these trees in 2004 and germinated in the spring of 2005. Nineteen seedlings were selected that expressed purple and/or variegated foliage traits and were also planted in Mills River, N.C. 'NCCC1', originally designated as H2005-055-003, was ²⁵ selected primarily for its attractive multi-colored foliage in spring and early summer. The first asexual propagation of 'NCCC1' was carried out in 2009 by budding at a nursery in Belvidere, Tenn. 'NCCC1' has been found to retain its distinctive characteristics, through repeated asexual propagation, over a 9-year period.

SUMMARY OF THE INVENTION

The following are the unique and distinguishing characteristics of this new cultivar when grown under standard horticultural practices at North Carolina State University, Mills River, N.C.: emerging and young leaves express a

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range and combination of colors including green, white, purple, and pink.

BRIEF DESCRIPTION OF THE DRAWINGS

This new redbud is illustrated by the accompanying photographs which show the plant's foliage and inflorescences. The colors shown are as true as can be reasonably obtained by conventional photographic procedures. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description, which accurately describe the colors of the new redbud.

FIG. 1 is a color photograph showing the emerging and young leaves of 'NCCC1' on a 4-year-old tree in Mills River, N.C. on May 28, 2009.

FIG. 2 is a color photograph showing the color of emerging and young leaves of 'NCCC1' on a 4-year-old tree in Mills River, N.C. on May 28, 2009.

FIG. 3 is a color photograph showing flowers of 'NCCC1' on a 9-year-old tree in Mills River, N.C. on Apr. 15, 2014.

DETAILED BOTANICAL DESCRIPTION

The following is a detailed description of the botanical characteristics of the new and distinct variety of the redbud tree known by the denomination 'NCCC1'. The detailed description was taken on an eight-year-old field-grown tree in Mills River, N.C. in April-October of 2013. All colors cited herein refer to The Royal Horticultural Society Colour Chart (The Royal Horticultural Society (R.H.S.), London, 2001 Edition). Where specific dimensions, sizes, colors, and other characteristics are given, it is to be understood that such characteristics are approximations or averages set forth as accurately as practicable.

TECHNICAL DESCRIPTION OF THE VARIETY

Classification:

Botanical name.—Cercis canadensis 'NCCC1'. Common name.—Redbud.

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Parentage: A second-generation hybrid that resulted from the *Length of bloom.*—2 to 3 weeks. original cross pollination of Cercis canadensis 'Forest Flower length.—1 cm. Flower width.—3 cm to 4 cm. Pansy'×Cercis canadensis 'Silver Cloud'. Plant description: Flower depth.—6 mm. Pedicel length.—1-2 cm. *Plant habit.*—Upright to spreading. *Height.*—4 meters high after 9 years. Pedicel diameter.—0.5 mm. Spread.—3 meters wide after 9 years. Pedicel shape.—Round. Trunk: Pedicel color.—Purple Group (71A). Pedicel surface.—Smooth. *Diameter.*—14 cm. at 30 cm. above the ground. Pedicel strength.—Medium. Bark surface.—Rugose. Color.—Brown (N200A) to greyed-green (198). *Persistence*.—Self-cleaning. Flower habit.—Sparse. Stems: Color.—Brown-tan (N200A). Fragrance.—Lacking. 15 Flower bud: *Length.*—Approximately 44 cm per year of growth. Shape.—Broadly oval. Surface.—Glaucous. Lenticels.—Numerous (1.5 to 2 per mm²), round, Color.—Purple Group (N77A). greyed-orange (165C). Surface.—Smooth. Diameter.—1 mm to 1.5 mm. Foliage: Length.-4 mm to 5 mm. *Type*.—Deciduous. 20 Petals: Leaf arrangement.—Alternate. *Number.*—5, lower 2 fused. *Leaf shape.*—Cordate to reniform. Color.—Red-purple (N74B to N66D). Leaf division.—Simple. *Petal surface.*—Smooth (both surfaces). *Leaf base.*—Cordate. Petal margin.—Entire. Leaf apex.—Cuspidate. Petal length.—1 cm. Leaf venation.—Reticulate. Petal width.—4 cm. Leaf surface.—Glaucous (upper and lower). *Petal shape.*—Oblong. Leaf margin.—Entire. *Apex.*—Rounded. Leaf attachment.—Petiolate. Base.—Cuneate. 30 Petiole diameter.—4-8 cm. Calyx: Petiole length.—2-6 cm. Shape.—Vase. Petiole shape.—Round. *Length.*—4 mm. Petiole color.—N79A Deep purple. Diameter.—5 mm. Petiole surface.—Glabrous. Color.—Purple (71A). Stem diameter.—20 cm in diameter measured 30 cm Surface.—Smooth. from the ground on an 11 year old tree. Sepals: Stem internode length.—About 3 cm. *Number.*—1 fused. Color.—Red-purple (N66B). Stem aspect.—About 45 degrees. Stem strength.—Strong. Surface.—Smooth. *Leaf color.*—Emerging (<25% mature size). Upper Reproductive organs: surface: Purple (N77A) to red-purple (N67B). Lower Pistil.—1 cm long, 1-2 mm wide. Color: Red-Purple surface: Red-purple (59A). Intermediate (26 to (59B). Surface: Smooth. Number: 1. <75% mature size): Upper surface: Green (139A) Stigma.—Shape: Elliptical. Length: Less than 1 mm. speckling or throughout central portion of lamina 45 Width: Less than 1 mm. Color: Red-Purple (59B). Style.—Length: Less than 1 mm. Width: Less than 1 with red-purple (N67C, 67C and 67D) to white mm. Color: Red-purple (60D). (N155B to N155C) throughout or towards the margin. Lower surface: Purple (N77A to N77C) with Stamens: some green (139A) speckling or blotches and white *Number.*—10. (N155B to N155C) typically towards the margins. 50 Length.—8 mm. Mature (76-100% mature size): Upper surface: Width.—Less than 1 mm. Green (139A) with some white (N155C) mostly Color.—(Filament) Red-purple (59D). along the margins. Lower surface: Purple (N77A to Anthers: N77C) to green (139A) with some white (N155C) Shape.—Round to oblong. along the margins. Leaf length: 7 cm to 10 cm (from 55) Length.—Less than 1 mm. leaf tip to base of leaf blade). Leaf width: 7 cm to 10 Color.—Red-purple (59B). cm (widest portion). Pollen: Color.—Yellow (9B), abundant. Flowers: Flowering season.—Early to mid-April in Mills River, Ovary: Superior position, elongate shape. N.C. Length.—1 cm. *Inflorescence*.—Papillonaceous flowers arranged in a Width.—1 cm. Color.—Red-purple (59B). cluster. Fruit: *Number of flowers per cluster.*—2 to 7.

Type.—Legume pod; rarely formed due to low fertility.

Disease and insect resistance: No significant disease or

insect pests have been observed.

Arrangement.—Sessile clusters.

older stems.

Location.—Nodes of previous season growth and along $_{65}$

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Cold hardiness: At least USDA zone 6b; not tested in colder

COMPARISON WITH PARENTAL SPECIES

zones.

Table 1 shows distinguishing characteristics between 'NCCC1' and its parental taxa.

TABLE 1

Comparison of foliage of 'NCCC1' to original parental cultivars.					
	Taxa				
Trait	'Forest Pansy'	'Silver Cloud'	'NCCC1'		
Color of	Deep-purple	White (N155B	Emerging with purple (N77A)		
emerging and young	(N77A) to red-purple	/	to red-purple (N67B). Developing more green		

TABLE 1-continued

Comparison of foliage of 'NCCC1' to original parental cultivars.					
	Taxa				
Trait	'Forest Pansy'	'Silver Cloud'	'NCCC1'		
foliage (upper surface)	(59A)	in various proportions.	(139A) speckling or throughout central portion of lamina with red-purple (N67C, 67C and 67D) to white (N155B to N155C) throughout or towards the margin of young leaves.		

What is claimed is:

1. A new and distinct hybrid of eastern redbud tree named 'NCCC1', illustrated and described within.

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Fig. 2



Fig. 3