(54) HYBRID FLOWERING CHERRY TREE NAMED ‘NCPH1’

(50) Latin Name:  Prunus sp.
Varietal Denomination:  NCPH1

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(72) Inventor:  Thomas G. Ranney, Raleigh, NC (US)

(73) Assignee:  North Carolina State University, Raleigh, NC (US)

(*) Notice:  Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 84 days.

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(22) Filed:  Feb. 6, 2015

(65) Prior Publication Data
US 2016/0234987 P1  Aug. 11, 2016

(51) Int. Cl.
A01I1 5/00  (2006.01)

(52) U.S. Cl.
USPC  ...........................................  Plt./182

Abstract

Latin name of the genus and species: The Latin name of the novel plant variety disclosed herein is Prunus sp.
Variety denomination: The inventive hybrid of Prunus ‘Snofozam’ × Prunus ‘First Lady’ disclosed herein has been given the varietal denomination ‘NCPH1’.

BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct hybrid cherry cultivar hereinafter referred to by the cultivar name ‘NCPH1’. This new cherry was developed through a breeding program at North Carolina State University, Mills River, N.C. ‘NCPH1’ was selected from a population of seedlings grown from a controlled cross of Prunus ‘Snofozam’ × Prunus ‘First Lady’ disclosd herein has been given the varietal denomination ‘NCPH1’.

SUMMARY OF THE INVENTION

The following are the unique combination of characteristics of this new cultivar when grown under standard horticultural practices in Mills River, N.C.

1. Small stature.
2. Strict weeping habit.
3. Pink flower color.

BRIEF DESCRIPTION OF THE DRAWINGS

This new cherry is illustrated by the accompanying photographs which show the plant’s form, 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 hybrid cherry.

FIG. 1 is a color photograph showing the form and flowers of ‘NCPH1’ in spring 2011 on a three-year-old tree.

FIG. 2 is a color photograph showing the form and foliage of ‘NCPH1’ in summer 2010 on a two-year-old tree (third growing season).

FIG. 3 is a color photograph of inflorescences of ‘NCPH1’ in spring 2011 on a three-year-old tree.

DETAILED BOTANICAL DESCRIPTION

The following is a detailed description of the botanical characteristics of the new and distinct hybrid cherry variety plant known by the denomination ‘NCPH1’. The detailed description was taken on a five-year-old field-grown plant in Mills River, N.C. in 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.—Prunus ‘NCPH1’.

Common name.—Hybrid flowering cherry.

Parentage: Seedling grown from a controlled cross of Prunus ‘Sieboldii’ NCSU 2007-040 (unpatented); Prunus ‘First Lady’ NCSU 2005-151 (unpatented).

Plant description:

Growth habit.—Strongly pendulous with a small stature.

Height.—Variable. Must be staked initially to develop a tree form. Can reach 2 to 3 m in five years.

Width.—2 to 3 m after five years.

Shoot and stem:

Immature shoot texture (current year).—Glabrous.

Immature shoot color (current year).—Yellow-Green (145B) to Greened-Red (178A).

Branch (shoot) length.—Ranging from 15 cm (laternals) to 80 cm (terminals).

Branch (shoot) diameter.—3-6 mm.

Matue stem texture (from prior year).—Glabrous, with profuse corky lenticels.

Matue stem color (from prior year).—Brown (N200B) with lenticels Brown (N200D).

Trunk diameter.—13 cm as measured 30 cm from the ground on an 8-year-old tree.

Trunk texture.—Covered with prominent corky horizontal lenticels and small patches of exfoliating outer bark.

Trunk color.—Outermost bark layer is Brown (N200B) with the inner bark layer Greened-Orange (N186C).

Trunk shape.—Cylindrical.

Trunk lenticels.—Color: Greened-Orange (163A).

Branching: Long weeping, branching from the main stem.

Roots: Fibrous, freely branching.

Leaves:

Type.—Simple.

Persistence.—Deciduous.

Arrangement.—Alternate.

Shape.—Elliptical to lanceolate.

Apex.—Acuminate.

Base.—Acute to oblique.

Venation pattern.—Pinnate/Reticulate.

Vein color.—Upper: Green (137B). Lower: Green (137B).

Margins.—Biserrate.


 Mature leaves during growing season.—Color: Upper: Green (137B). Lower: Green (137C). Texture: Scabrous with sparse stiff pubescence along veins on both sides. Length of lamina: Avg. 65.5 mm (47.4 to 79.3 mm). Width: Avg. 26.9 mm (17.1 to 35.2 mm).

Fall foliage color.—Before frost foliage senesces to Greened-Orange (163B and 163A) (upper and lower surfaces). After frost any green foliage turns Greened-Orange (187A) and then to Brown (200A) (upper and lower surfaces).

Leaf attachment.—Petiolate.

Petiole.—Length: Avg. 8.2 mm (7.8 to 12.1 mm). Diameter: Avg. 0.96 mm (0.8 to 1.4 mm). Color: Yellow-Green (145B) darkening to Greened-Red (178A). Texture: Puberulent.

Stipule.—Deeply dissected stipules, Green (137B). Avg. 19.5 mm (17.4 to 21.1 mm) long and avg. 7.1 mm (4.8 to 10.2 mm) wide.

Inflorescence:

Description.—Single flowers.

Number of true flowers per inflorescence.—1 to 4 (most typically in pairs).

Flowering season.—Spring; March and April in Mills River, NC.

Fragrance.—Slight fragrance.

Bud.—Shape: Elongated ovoid. Length: Avg. 11.9 mm, Range (9.4 to 16.1 mm). Diameter: Avg. 4.7 mm, Range (3.8 to 6.3 mm). Color: Red-Purple (65C).

Perianth.—Diameter at anthesis: Avg. 27.5 mm (25 to 30 mm). Height at anthesis: Avg. 17.5 mm, Range (16 to 19 mm).

Perianth aspect.—Clustered, mostly outward facing.


Calyx.—Shape: Five-lobed conic tube. Length: Avg. 9.6 mm, Range (7.5 to 12.1 mm). Diameter: Avg. 10.4 mm, Range (9.2 to 11.2 mm).

Sepal.—Appearance: Fused base surrounding a supero sour ovary with five acute, entire margin, lanceolate lobes. Number: 5. Color, immature: Upper: Closest to Green (139B) with Red-Purple (59B) highlights. Lower: Closest to Green (139B) with Red-Purple (59B) highlights. Color, mature: Upper: Greened-Orange (183B). Lower: Red-Purple (59A). Texture: Puberulent. Length: Avg. 3.5 mm, Range (3 to 4 mm). Width: Avg. 3.1 mm, Range (2.3 to 3.4 mm).

Peduncle.—Length: Avg. 11.1 mm (8.6 to 14.1 mm). Diameter: Avg. 0.87 mm (0.76 to 1.11 mm). Color: Green (137D). Surface texture: Puberulent.

Reproductive organs:


**Fruit and seed**—Fruit type: Drupe. Fruit texture: Glabrous and shiny. Fruit length: Avg. 9.5 mm (8.7 to 10.2 mm). Fruit diameter: Avg. 9.3 mm (8.3 to 10.3 mm). Fruit color: Immature: Yellow-Green (146C). Mature: Closest to Greyed-Purple (1186A). Seed number: 1 seed per fruit. Seed length: Avg. 6.2 mm (5.9 to 6.8 mm). Seed diameter: Avg. 5 mm (4.6 to 5.6 mm). Seed color: Greyed-Orange (165C).

**Disease and insect resistance**: No significant disease or insect pests have been observed.

**Cold hardiness**: At least USDA zone 6b; testing has not been completed in colder zones.

**COMPARISON OF ‘NCPH1’ WITH COMMERCIAL CULTIVARS AND PARENTAL PLANTS**

‘NCPH1’ is distinguished from *Prunus* ‘First Lady’ by its strict weeping habit and lighter red-purple (73B-73D) petals compared to the upright, ascending form and darker red-purple (67B-67C) petals of ‘First Lady’.

Table 1 shows distinguishing characteristics between ‘NCPH1’ and commercial cultivars. ‘NCPH1’ is distinguished from *Prunus* ‘Snofozam’ in that ‘NCPH1’ has pink flowers, which are larger with a slight fragrance, and smaller leaves. ‘NCPH1’ is distinguished from *Prunus subhirtella* ‘Pendula Plena Rosea’ by having a smaller stature, a strict weeping habit, smaller leaves, simple rather than double flowers, and wider petals.

**TABLE 1**

<table>
<thead>
<tr>
<th>Trait</th>
<th>‘Snofozam’</th>
<th>‘Pendula Plena Rosea’</th>
<th>‘NCPH1’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant height</td>
<td>2 to 3 m</td>
<td>5 to 8 m</td>
<td>2 to 3 m (dependent upon)</td>
</tr>
</tbody>
</table>

**What is claimed is:**

1. A new and distinct hybrid cherry tree named ‘NCPH1’ substantially as illustrated and described herein.

* * * *
UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : PP27,579 P3
APPLICATION NO. : 14/544707
DATED : January 24, 2017
INVENTOR(S) : Thomas G. Ranney

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification

Column 5, Line 8: Please correct “5 6 mm),” to read -- 5.6 mm). --

Signed and Sealed this
Twenty-fifth Day of July, 2017

Joseph Matal
Performing the Functions and Duties of the
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office