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Lane et al.

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(54) **PRUNUS TREE NAMED ‘13S2101’**

(50) Latin Name: *Prunus avium*
Varietal Denomination: **13S2101**

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patent is extended or adjusted under 35
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Related U.S. Application Data

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(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.**
USPC **Plt./181**

(58) **Field of Classification Search**
USPC Plt./181
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

PLUTO Plant Variety Database Jul. 22, 2015. p. 1.*

* cited by examiner

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(57) **ABSTRACT**

A new cultivar of *Prunus avium*, ‘13S2101’, characterized by
its very late harvest season, its flowers that are self-fertile, its
moderate precocity of fruit bearing, its spreading growth
habit with horizontal one year-old shoots, its fruit skin and
flesh that is red color with juice that is high in sweetness, and
its firm fruit that is elongate to cordate in shape.

1 Drawing Sheet

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Botanical classification: *Prunus avium*.
Variety denomination: ‘13S2101’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Prunus avium* and will be referred to hereafter by its
cultivar name, ‘13S2101’. ‘13S2101’ is a new cultivar of
sweet cherry tree grown for fruit production.

The new cultivar of *Prunus* arose from a breeding program
conducted by the Inventor at a research centre in Summer-
land, BC, Canada with the goal of developing a new cultivar
of cherry tree that would extend the harvest season with fruit
that was firm and well-sized with good stem pull retention and
good storage life and flowers that are self-fertile.

‘13S2101’ originated as a seedling that arose from seed
planted from open pollination of ‘Sweetheart’ (not patented)
in 1982. ‘13S2101’ (breeding ref.no. 13S-21-01) was selected
as a single unique tree in 1991 from amongst the resulting
seedlings.

Asexual propagation of the new cultivar was first accom-
plished by budding onto *Prunus avium* rootstock by the
Inventor in Summerland, BC, Canada in 1991. Asexual
propagation by budding has determined that the characteris-
tics of the new cultivar are stable and are reproduced true to
type in successive generations.

SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and
represent the characteristics of the new cultivar as grown in

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test plots in Summerland, BC, Canada. These attributes in
combination distinguish ‘13S2101’ as a unique cultivar of
cherry tree.

1. ‘13S2101’ exhibits a very late harvest season; August
11th in Summerland, BC, Canada.
2. ‘13S2101’ exhibits flowers that are self-fertile.
3. ‘13S2101’ exhibits a moderate precocity of fruit bearing.
4. ‘13S2101’ exhibits a spreading growth habit with hori-
zontal one year-old shoots.
5. ‘13S2101’ exhibits fruit that is firm with red skin and
flesh with juice that has a high degree of sweetness.
6. ‘13S2101’ exhibits fruit that is elongated to cordate in
shape.

‘Sweetheart’, the female parent, is similar to ‘13S2101’ in
being self-fertile but differs from ‘13S2101’ in having a tree
habit that is more upright, in having round shaped fruit, higher
fruit set, and a fruit harvest maturity date at least 10 days
earlier. ‘13S2101’ can be most closely compared to the cul-
tivars ‘13S2009’ (U.S. Plant Pat. No. 20,551) and ‘SPC103’
(U.S. Plant Patent pending). ‘13S2009’ is similar to ‘SPC103’
in being self-fertile but differs ‘13S2101’ in having fruit that
is compressed cordate in shape with a higher fruit set, and a
fruit harvest maturity date that is about 4 days earlier.
‘SPC103’ is similar to ‘13S2101’ in having a late harvest day,
however ‘SPC103’ differs most significantly from ‘13S2101’
in having fruit that is dark red-purple in color and kidney to
cordate in shape.

BRIEF DESCRIPTION OF THE DRAWING

The accompanying colored photograph illustrates the overall appearance and distinct characteristics of the fruit of '13S2101' on an 8 year-old tree as grown in a trial plot in Summerland, BC, Canada.

The photograph in FIG. 1 provides a view of a cluster of fruit of '13S2101'. The colors in the photograph are as close as possible with the digital photography techniques available, the color values cited in the detailed botanical description accurately describe the colors of the cherry tree.

DETAILED BOTANICAL DESCRIPTION

The following is a detailed description of 8 year-old trees as grown in a trial plot in Summerland, BC, Canada. The phenotype of the new cultivar may vary with variations in environmental, climatic, and cultural conditions, as it has not been tested under all possible environmental conditions. The color determination is in accordance with The 2001 R.H.S. Colour Chart of The Royal Horticultural Society, London, England, except where general color terms of ordinary dictionary significance are used.

General description:

Plant type.—Deciduous fruit bearing tree.

Plant habit.—Spreading with horizontal branching.

Height and spread.—Reaches about 3.20 m in height and about 3.76 m in width.

Cold hardiness.—U.S.D.A. Zone 4.

Diseases and pests.—No susceptibility or resistance to diseases or pests has been observed.

Root description.—Fibrous, freely branched.

Propagation.—Budding onto rootstock.

Growth rate.—Moderate.

Trunk description:

Size of trunk.—23.6 cm in diameter measured 38 cm above soil level.

Bark color.—202D with horizontal streaks of 184B.

Bark texture.—Rough and peeled.

Description of dormant shoots (one year-old):

Pubescence.—Absent or very weak.

Shoot size.—Average of 31 cm in length and 6.22 mm in width.

Anthocyanin presence.—Weak.

Thickness of shoot at center of middle internode.—Thin to moderate; average of 4.57 mm.

Bark color.—174A.

Shoot angle.—Nearly horizontal.

Lenticels.—13.3 lenticels per 2 cm².

Branch internode length.—Moderately long; average of 40 mm.

Vegetative buds.—Large in size; 7.90 mm in length and 3.88 mm in width, conical in shape, held slightly out from shoot, support is moderately high.

Description of growing shoots:

Color of growing tip of shoot.—174A.

Pubescence of shoots tip.—Absent or very weak.

Anthocyanin presence.—Weak.

Foliage description:

Leaf shape.—Elliptic.

Leaf division.—Simple.

Leaf base.—Rounded.

Leaf apex.—Acute and acuminate to cuspidate at very tip.

Leaf fragrance.—None.

Leaf burst.—Early in the beginning of full flowering.

Leaf venation.—Pinnate, not prominent, same as leaf color with the midrib on lower surface.

Leaf margins.—Dentate.

Leaf arrangement.—Alternate.

Leaf aspect.—Concave and held horizontal to slightly downward in relation to shoot.

Leaf attachment.—Petiolate.

Leaf surface.—Slightly pubescent on lower surface with upper surface moderately glossy.

Leaf size.—Mature leaves average 17 cm in length and 8.6 cm in width.

Leaf internodes.—Average of 3.8 cm.

Leaf color.—Mature leaves upper surface; 139A, mature leaves lower surface; 137C, fall color occurs late in season.

Petioles.—Average of 3.64 cm in length and 2.50 mm in width, 174A in color with anthocyanin's, typically 3 nectaries that are kidney-shaped and 166A in color, glabrous surface.

Inflorescence description:

Blooming period.—Blooms about mid-late in the bloom season in B.C., Canada, just after '13S2009'.

Inflorescence type.—Clusters of single flowers.

Lastingness of inflorescence.—Average of 7 to 10 days.

Flower buds.—Ovoid, sharp tip in shape, about 7.8 mm in length and 3.36 mm in width prior to opening, 166A in color.

Flower quantity.—Medium density.

Flower type.—Rotate corolla above an elongated calyx with stamens and pistil extended.

Flower size.—Large; average of 4.23 cm in diameter.

Calyx.—Comprised of sepals fused into an ovoid base with un-fused portions spreading at apex.

Sepals.—5, 180C in color, glabrous surface, about 5.97 mm in length, entire glandular margin, attenuate apex, fused base.

Petals.—5, round in shape, un-fused, overlapping, smooth margin, rounded base, rounded apex, about 16.24 mm in length and 9.37 mm in width, 155C in color (upper and lower surface).

Pedicels.—Average of 35.89 mm in length, 0.89 mm in width, 143B in color, glabrous surface.

Rachis.—Glabrous surface, flowers lightly compacted with whorled arrangement.

Reproductive organs:

Gynoecium.—1 pistil about 11.95 mm in length and 1 mm in width extending beyond perianth, style is 167A in color, stigma is about 1 mm in diameter and 142B in color, ovary is superior, glabrous and 141C in color.

Androcoecium.—Average of 28 stamens, base adnate to calyx, filaments are 161D in color, about 13.30 mm in length and 1 mm in width, anthers are 166B in color, dorsifixed, about 0.5 mm in length and in width, pollen is abundant in quantity and about 166B in color.

Fertility.—Self-fertile.

Fruit description:

Fruit type.—Drupe.

Fruit shape.—Kidney-shaped (lateral view is flattened to rounded), flat to pointed apex.

Fruit apex.—Flat and slightly protruding with moderately low susceptibility to rain induced cracking.

Fruit size.—Very large; 24.29 mm in length and 27.15 mm in width.

Fruit firmness.—Firm.

Fruit set.—Medium.
Fruit stalk.—Long; average of 5.54 cm in length and 1.32 mm in width, surface, color 138B.
Fruit bearing.—Medium.
Skin color.—59A when ripe with light colored dots. 5
Skin suture.—Low prominence.
Harvest date.—Very late harvest season; August 11th in Summerland, BC, Canada, 31 days after Bing.
Skin surface.—Glossy.
Flesh color.—53B. 10
Flesh texture.—Fleshy, moderately juicy.
Flavor.—High degree of sweetness.
Weight.—An average of 10.7 g/drupe.

Brix.—20.6.
Acidity.—pH 3.69.
Storage life.—Up to 4-5 weeks at 0.5° C.
Seeds.—1 stone per drupe, 159B in color, large in size; average of 10.56 mm in length and 9.57 mm in width, 7.81 mm thick, semi adherent to flesh, shape; lateral view is symmetrical and spherical to elongate, front view is ovate, basal view is round, keel is moderately developed.
It is claimed:
1. A new and distinct cultivar of *Prunus* tree named ‘13S2101’ as herein illustrated and described.
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