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(54) PEACH TREE NAMED 'SNOW RYDER'

(50) Latin Name: *Prunus persica*Varietal Denomination: **Snow Ryder**

CA (US)

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(57) ABSTRACT

A new and distinct variety of peach tree (*Prunus persica*). The following features of the tree and its fruit are characterized with the tree budded on 'Nemaguard' Rootstock (non-patented), grown on Handford sandy loam soil with Storie Index rating 95, in USDA Hardiness Zone 9, near Modesto, Calif., with standard commercial fruit growing practices, such as pruning, thinning, spraying, irrigation and fertilization. Its novelty consist of the following combination of desirable features:

- 1. Tree with vigorous, upright growth.
- 2. Regular and productive bearer of large size fruit.
- 3. Fruit with a high degree of attractive red skin color.
- 4. Fruit with very good flavor and eating quality.
- 5. Firm, white flesh fruit with good shipping quality.

1 Drawing Sheet

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Botanical designation: *Prunus persica*. Variety denomination: 'Snow Ryder'.

BACKGROUND OF THE VARIETY

Field of the Invention

In the field of plant genetics, we conduct an extensive and continuing plant-breeding program including the organization and asexual reproduction of orchard trees, and of which plums, peaches, nectarines, apricots, cherries, almonds and interspecifics are exemplary. It was against this background of our activities that the present variety of peach tree was originated and asexually reproduced by us in our experimental orchard located near Modesto, Stanislaus County, Calif.

PRIOR VARIETIES

Among the existing varieties of peach trees, which are known to us, and mentioned herein, 'Snow Lady Rose' 20 Peach (U.S. Plant Pat. No. 25,093), 'Sweet Shasta' Peach (U.S. Plant Pat. No. 14,515), 'Aspen White' Peach (U.S. Plant Pat. No. 23,609) and our proprietary non-patented peach seedlings '56Z130' and '45GH243'.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH AND DEVELOPMENT

Not applicable.

ORIGIN OF THE VARIETY

The new and distinct variety of peach tree (*Prunus persica*) was developed by us in our experimental orchard

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located near Modesto, Calif. from a first generation cross between our proprietary non-patented peach seedling '56Z130' and 'Snow Lady Rose' Peach (U.S. Plant Pat. No. 25,093). The seed parent (56Z130) is a first generation seedling selection from the cross between our proprietary non-patented peach seedling '45GH243' and 'Sweet Shasta' Peach (U.S. Plant Pat. No. 14,515). A large number of these first generation seedlings were grown and budded to older trees of 'Nemaguard' Rootstock (non-patented) to accelerate rapid fruit production. Under close and careful observation we recognized the desirable tree and fruit characteristics of the present seedling and selected it in 2010 for additional asexual propagation and commercialization.

ASEXUAL REPRODUCTION OF THE VARIETY

In 2010 asexual reproduction of the new and distinct variety of peach tree was by budding to 'Nemaguard' Rootstock (non-patented), as performed by us in our experimental orchard located near Modesto, Calif., and shows that reproductions run true to the original tree and all characteristics of the tree and its fruit are established and transmitted through succeeding asexual propagations.

SUMMARY OF THE NEW VARIETY

The present new variety of peach tree (*Prunus persica*) is of large size, vigorous, upright growth and a regular and productive bearer of large size, white flesh, clingstone fruit. The fruit is further characterized by its attractive red skin color, very good flavor and eating quality with good handling and storage quality. In comparison to its non-patented peach seed parent (56Z130) the fruit of the new variety is larger in size and has white flesh compared to yellow. In

comparison to its pollen parent 'Snow Lady Rose' Peach (U.S. Plant Pat. No. 25,093) the fruit of the new variety is larger in size and approximately 19 days later in maturity. In comparison to the commercial variety 'Aspen White' Peach (U.S. Plant Pat. No. 23,609) the fruit of the new variety is 5 larger in size and has a higher degree of attractive red skin color.

DESCRIPTION OF THE PHOTOGRAPH

The accompanying color photographic illustration shows typical specimens of the foliage and fruit of the present new peach variety.

The illustration shows the upper and lower surface of the leaves, an exterior and sectional view of a single fruit divided in its suture plane to show flesh color, pit cavity and the stone remaining in place.

The photographic illustration was taken shortly after being picked (shipping ripe) from a 6 year old tree and the 20 colors are as nearly true as is reasonably possible in a color representation of this type.

DESCRIPTION OF THE VARIETY

The following is a detailed botanical description of the new variety of peach tree, its flowers, foliage and fruit, as based on observations of 6 year old specimens grown near Modesto, Calif., with color in accordance with Munsell Book of Color published in 1958.

Size.—Large, usually pruned to 3 to 3.5 meters in height and width for economical harvesting of fruit. Size varies with different cultural practices.

Vigor.—Vigorous, growth of 1.5 to 2 meters in height 35 and width the first growing season. Varies slightly with type and fertility of soil, climatic conditions and cultural practices.

Form.—Upright, usually pruned to vase shape.

Branching habit.—Upright, crotch angle approxi- 40 mately 35°, increases with heavy crop load.

Productivity.—Productive, thinning and spacing of fruit necessary for desired market size fruit. Number of fruit set varies with climatic conditions during blooming period.

Bearer.—Regular, has had adequate fruit set 4 consecutive years. No alternate bearing observed.

Fertility.—Self-fertile.

Density.—Medium dense, usually pruned to vase shape to increase air movement and sunlight to enhance 50 Flowers: fruit color and health of fruit wood.

Hardiness.—Hardy in all stone fruit growing areas of California. Tree grown in USDA Hardiness Zone 9. Winter chilling requirement approximately 300 hours at or below 45° F.

Trunk:

Tree:

Size.—Large, average circumference 41.1 cm at 25.4 cm above ground on a 6 year old tree.

Stocky.—Medium stocky.

Texture.—Medium shaggy, roughness increases with 60 age.

Color.—Varies from 2.5Y 4/4 to 5Y 4/2.

Branches:

Size.—Medium. Average circumference 10.2 cm at 1.2 meters above ground. Crotch angle approximately 65 35°, increases with heavy crop load.

Surface texture.—New growth relatively smooth. Mature growth medium rough, roughness increases with age.

Lenticels.—Average number 26 in a 25.8 square cm area. Average length 4.7 mm. Average width 1.9 mm. Color varies from 7.5YR 5/8 to 7.5YR 5/10.

Color.—New growth varies from 5GY 6/4 to 5GY 6/6. Mature growth varies from 7.5YR 4/6 to 7.5YR 3/6, varies with age of growth.

10 Leaves:

Size.—Medium to large. Average length 109.2 mm. Average width 27.0 mm.

Form.—Lanceolate.

Apex.—Acuminate.

Base.—Cuneate.

Margin.—Crenate.

Thickness.—Medium.

Surface texture.—Upper surface relatively smooth, slight indentations over midrib and leaf veins. Lower surface relatively smooth, except for small ridges created by midrib and pinnate venation. Both upper and lower surfaces glabrous.

Petiole.—Average length 8.0 mm. Average width 1.5 mm. Longitudinally grooved. Surface — glabrous. Color varies from 5GY 7/7 to 5GY 7/6.

Glands.—Type — reniform. Size — small. Average length 1.0 mm. Average diameter 0.5 mm. Number varies from 1 to 3, average number 2. Located primarily on base of leaf blade and upper portion of petiole. Color 5GY 8/4.

Stipules.—Average number 2. Average length 6.7 mm. Edges pectinate. Color varies from 2.5GY 6/6 to 2.5GY 5/6.

Color.—Upper surface varies from 5GY 3/4 to 5GY 2/2. Lower surface varies from 5GY 4/4 to 5GY 3/4. Midvein color varies from 2.5GY 8/2 to 5GY 9/2.

Flower buds:

Size.—Large. Average length 21.2 mm. Average diameter 10.9 mm.

Hardiness.—Hardy with respect to California winters. Density.—Medium dense.

Form.—Conical, becoming elongated just before opening.

Pedicel.—Average length 4.8 mm. Average width 1.4 mm. Surface glabrous. Color varies from 2.5GY 6/6 to 5GY 5/6.

Color.—Varies from 5RP 7/6 to 5RP 6/12.

Blooming period.—Date of First Bloom Feb. 4, 2015. Date of Petal Fall Feb. 14, 2015, varies slightly with climatic conditions.

Size.—Large, showy. Average height 23.9 mm. Average diameter 49.8 mm.

Petals.—Normally 5, alternately arranged to sepals. Size — large. Average length 23.4 mm. Average width 22.3 mm. Form — orbicular. Petal apex rounded. Petal base rounded to truncate. Margin sinuate. Arrangement — free. Color varies from 2.5RP 8/4 to 5RP 8/4. Both upper and lower surfaces glabrous.

Sepals.—Normally 5, alternately arranged to petals. Size — large. Average length 6.4 mm. Average width 6.7 mm. Shape — ovate. Apex — rounded. Margin — entire. Color — upper surface varies from 5

5GY 4/6 to 7.5R 2/6. Lower surface varies from 5R 2/4 to 7.5R 2/2. Surface — upper surface glabrous, lower surface pubescent.

Stamens.—Average number per flower 46. Average filament length 17.8 mm. On average the stamens are above the height of the flowers. Filament color varies from N 9.5/(white) to 5RP 7/6, depending on age of flower. Anther color varies from 7.5R 3/12 to 7.5Y 8/8.

Pollen.—Self-fertile. Color varies from 2.5Y 7/12 to 5Y 7/12.

Pistil.—Number — normally 1. Surface — pubescent. Average length 20.8 mm. Position of stigma an average of 2.4 mm below anthers. Color varies from 10Y 8.5/4 to 10Y 8/4.

Fragrance.—Moderate.

Color.—Varies from 2.5RP 8/6 to 5RP 8/4.

Pedicel.—Average length 5.9 mm. Average width 1.4 mm. Color varies from 2.5GY 5/8 to 5GY 5/8.

Number flowers per flower bud.—Normally one.

Fruit:

Maturity when described.—Firm ripe and ready for consumption.

Date of first picking.—Jun. 7, 2015.

Date of last picking.—Jun. 17, 2015, varies slightly with climatic conditions.

Size.—Large. Average diameter axially 69.0 mm. Average transversely in suture plane 76.6 mm. Average weight 244.2 grams, varies slightly with fertility of the soil, amount of thinning and climatic conditions.

Form.—Globose.

Suture.—Nearly smooth.

Ventral surface.—Smooth to slightly lipped.

Apex.—Slightly retuse.

Base.—Retuse.

Stem cavity.—Rounded to slightly elongated in suture plane. Average depth 10.5 mm. Average diameter 6.1 mm.

Stem:

Size.—Medium. Average length 8.2 mm. Average diameter 4.1 mm.

Color.—Varies from 5GY 6/8 to 5GY 5/8.

Flesh:

Ripens.—Evenly.

Texture.—Firm, meaty, crisp.

Fibers.—Few, small, tender.

Firmness.—Good, comparable to other commercial peach varieties.

Aroma.—Slight.

Amydgalin.—Undetected.

Eating quality.—Very good.

Flavor.—Very good, mild, sweet, sub-acid.

Juice.—Moderate amount, enhances flavor.

Acidity.—Not available.

Brix.—Average Brix 13.5°, varies slightly with amount of fruit per tree and climatic conditions.

Pit cavity.—Average length 35.6 m. Average width 27.5 mm. Average depth 11.8 mm. Color varies from 7.5Y 8.5/4 to 7.5Y 8/6.

Color.—Varies from 10Y 8/2 to 7.5Y 8/6.

Skin:

Thickness.—Medium.

Surface.—Smooth.

Pubescence.—Slight amount, very short.

Tendency to crack.—None.

Color.—Ground color varies from 7.5Y 8.5/2 to 7.5Y 8.5/4. Overspread with 5R 4/10 to 5R 3/6.

Tenacity.—Tenacious to the flesh.

Astringency.—Undetected.

10 Stone:

Type.—Clingstone, strong adherence to flesh.

Size.—Large. Average length 34.6 mm. Average width 26.5 mm. Average thickness 21.5 mm.

Form.—Ovoid.

Base.—Flat.

Apex.—Round.

Surface.—Pitted throughout, pits vary from rounded to elongated.

Sides.—Unequal, one side extending further from suture plane.

Ridges.—Relatively smooth, extending from base to apex.

Tendency to split.—None.

Color.—Varies from 7.5Y 9/2 to 7.5Y 9/4 when dry.

25 Kernel:

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Size.—Medium to large. Average length 17.9 mm. Average width 11.0 mm. Average depth 7.2 mm.

Form.—Ovoid.

Viability.—Viable, complete embryo development.

Skin color.—Varies from 7.5Y 9/2 to 7.5Y 9/4.

Use: Dessert. Market — local and long distance.

Keeping quality: Good, held firm in cold storage 2 weeks at 38° to 42° F. without shriveling, internal breakdown of flesh or appreciable loss of flavor.

Shipping quality: Good, showed minimal skin scarring or flesh bruising during picking, packing and shipping trials.

Plant/fruit disease resistance/susceptibility: No specific testing for relative plant/fruit disease resistance/susceptibility has been designed. Under close observation during planting, growing, and harvesting of fruit, under normal cultural and growing conditions near Modesto, Calif., no particular plant/fruit disease resistance or susceptibility has been observed. Any variety or selection observed during indexing of plant characteristics with abnormal fungus, bacterial, virus or insect susceptibility is destroyed and eliminated from our breeding program. No atypical resistances/susceptibilities have been noted under normal cultural practices. The present new variety of peach tree, its flowers, foliage and fruit herein described may vary in slight detail due to climate, soil conditions and cultural practices under which the variety may be grown. The present description is that of the variety grown under the ecological conditions prevailing near Modesto, Calif.

The invention claimed is:

1. A new and distinct variety of peach tree, substantially as illustrated and described.

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