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(12) **United States Plant Patent**
Zaiger et al.(10) **Patent No.:** US PP27,828 P2
(45) **Date of Patent:** Apr. 4, 2017(54) **PEACH TREE NAMED AMERICAN**(50) Latin Name: ***Prunus persica***
Varietal Denomination: **American**(71) Applicants: **Gary Neil Zaiger**, Modesto, CA (US);
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A01H 5/08 (2006.01)(52) **U.S. Cl.**
USPC **Plt./197**(58) **Field of Classification Search**
USPC Plt./197
See application file for complete search history.*Primary Examiner* — Anne Grunberg**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 having a vigorous, upright growth habit.
2. Regular and productive bearer of large size fruit.
3. Fruit with firm, non-melting, yellow flesh suitable for mechanical pitters.
4. Fruit with very good flavor and a good balance between acid and sugar.
5. Fruit with good storage and shipping quality.

1 Drawing Sheet**1**

Botanical designation: *Prunus persica*.
Variety denomination: 'American'.

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, 'Stanislaus' Peach (U.S. Plant Pat. No. 8,376) and our proprietary non-patented peach seedling selections '225LV72', '331LH90' and '261LP6'.

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 located near Modesto, Calif. from open pollinated seed collected from our non-patented proprietary peach seedling

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selection '225LV72'. The seed parent (225LV72) originated as a first generation cross between our proprietary non-patented peach selections '331LH90' and '261LP6'. A large group of these open pollinated seedlings were planted and maintained on their own root system, during which time we recognized the desirable tree and fruit characteristics of the present seedling and selected it in 2008 for additional asexual propagation and commercialization.

ASEXUAL REPRODUCTION OF THE VARIETY

In 2008 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, non-melting, yellow flesh, clingstone fruit with very good flavor and eating quality. The fruit is further characterized by having an attractive orange skin color and maturing relatively uniform throughout the tree. In comparison to its non-patented peach seed parent '225LV72' the fruit of the new variety is approximately 16 days earlier in maturity. In comparison to the commercial variety 'Stanislaus' Peach (U.S. Plant Pat. No. 8,376) the fruit of the new variety is firmer with more uniform sizes throughout the tree and is approximately 16 days earlier in maturity.

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 7 year old tree and the colors are as nearly true as is reasonably possible in a color representation of this type.

DESCRIPTION OF THE VARIETY

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The following is a detailed botanical description of the new variety of peach tree, its flowers, foliage and fruit, as based on observations of 7 year old specimens grown near Modesto, Calif., with color in accordance with Munsell Book of Color published in 1958.

Tree:

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 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 approximately 30°, 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 5 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 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 700 hours at or below 45° F.

Trunk:

Size.—Medium, average circumference 45.7 cm at 27.9 cm above ground on a 7 year old tree.

Stocky.—Medium stocky.

Texture.—Medium shaggy, roughness increases with age.

Color.—Varies from 10YR 6/2 to 5GY 3/2.

Branches:

Size.—Medium. Average circumference 8.4 cm at 1.2 meters above ground. Crotch angle approximately 30°, increases with heavy crop load.

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

Lenticels.—Average number 45 in a 25.8 square cm area. Average length 1.3 mm. Average width 1.0 mm. Color varies from 7.5YR 6/10 to 5YR 5/12.

Color.—New growth varies from 2.5GY 7/6 to 5GY 6/8. Mature growth varies from 5YR 3/4 to 7.5YR 3/4, varies with age of growth.

Leaves:

Size.—Medium to large. Average length 133.8 mm.

Average width 35.7 mm.

Form.—Lanceolate.

Apex.—Acuminate.

Base.—Cuneate.

Margin.—Create.

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.—Medium. Average length 8.5 mm. Average width 1.5 mm. Longitudinally grooved. Surface — glabrous. Color varies from 2.5GY 6/6 to 5GY 5/8.

Glands.—Type — reniform. Size — medium to large. Average length 1.3 mm. Average diameter 1.0 mm. Number varies from 3 to 5, average number 4. Located primarily on the base of the leaf blade and upper portion of the petiole. Color varies from 5GY 5/6 to 5GY 5/8.

Stipules.—Average number 2. Average length 8.7 mm. Edges — pectinate. Color varies from 2.5GY 6/6 to 5GY 5/8.

Color.—Upper surface varies from 5GY 3/4 to 7.5GY 3/4. Lower surface varies from 5GY 4/4 to 2.5GY 4/4. Midvein color varies from 10Y 6/4 to 10Y 7/4.

Flower buds:

Size.—Medium. Average length 16.0 mm. Average diameter 8.1 mm.

Hardiness.—Hardy with respect to California winters.

Density.—Medium dense.

Form.—Conical, becoming elongated just before opening.

Pedicel.—Small. Average length 2.7 mm. Average width 1.5 mm. Color varies from 5GY 6/6 to 5GY 7/6. Surface — glabrous.

Color.—Varies from 7.5RP 8/6 to 7.5RP 6/10.

Flowers:

Blooming period.—Date of First Bloom Feb. 10, 2015. Date of Petal Fall Feb. 20, 2015, varies slightly with climatic conditions.

Size.—Medium, non-showy. Average height 15.1 mm. Average diameter 21.4 mm.

Petals.—Normally 5, alternately arranged to sepals. Size — medium. Average length 10.6 mm. Average width 8.8. Form — elliptical. Margin — sinuate. Arrangement — free. Petal apex — rounded. Petal base — truncate. Color varies from 7.5RP 8/4 to 10RP 8/4, fades with age of flower. Both upper and lower surfaces glabrous.

Sepals.—Normally 5, alternately arranged to petals. Size — small to medium. Average length 4.7 mm. Average width 5.0 mm. Shape — ovate. Margin — entire. Apex — rounded to triangular. Surface — upper surface glabrous, lower surface pubescent. Color — upper surface varies from 2.5GY 6/6 to 5GY 7/8. Lower surface varies from 2.5R 3/6 to 2.5GY 6/6.

Stamens.—Average number per flower 42. Average filament length 11.4 mm. On average, the stamens are above the height of the petals. Filament color varies from N 9.5/(white) to 5RP 6/8. Anther color varies from 7.5R 4/4 to 2.5Y 8/10.

<i>Pollen.</i> —Self fertile. Color varies from 2.5Y 7/12 to 5Y 7/12.		<i>Pubescence.</i> —Moderate amount, short in length.
<i>Pistil.</i> —Number — normally one. Average length 13.8 mm. Surface — pubescent. Position of stigma an average of 1.0 mm below anthers. Color varies from 10Y 7/6 to 2.5GY 7/6.	5	<i>Tendency to crack.</i> —None.
<i>Fragrance.</i> —Wanting.		<i>Color.</i> —Ground color varies from 8.75YR 6/12 to 10YR 7/10.
<i>Color.</i> —Varies from 7.5RP 8/4 to 10RP 8/4.		<i>Tenacity.</i> —Tenacious to flesh.
<i>Pedicel.</i> —Average length 3.4 mm. Average width 1.6 mm. Color varies from 5GY 6/6 to 5GY 7/6. Surface — glabrous.	10	<i>Astringency.</i> —Undetected.
<i>Number flowers per flower bud.</i> —Normally one.		
Fruit:		Stone:
<i>Maturity when described.</i> —Firm ripe and ready for consumption.	15	<i>Type.</i> —Clingstone, strong adherence to flesh.
<i>Date of first picking.</i> —Jun. 24, 2015.		<i>Size.</i> —Medium. Average length 29.6 mm. Average width 24.2 mm. Average thickness 20.6 mm.
<i>Date of last picking.</i> —Jul. 4, 2015, varies slightly with climatic conditions.		<i>Form.</i> —Ovoid.
<i>Size.</i> —Large. Average diameter axially 66.0 mm. Average transversely in suture plane 75.2 mm. Average weight 230.0 grams, varies slightly with fertility of the soil, amount of thinning and climatic conditions.	20	<i>Base.</i> —Flat.
<i>Form.</i> —Globose.		<i>Apex.</i> —Pointed. Average length 1.8 mm.
<i>Suture.</i> —Shallow, distinct, extends from base to apex.		<i>Surface.</i> —Pitted throughout, pits vary from rounded to elongated.
<i>Ventral surface.</i> —Very slightly lipped.	25	<i>Sides.</i> —Unequal, one side extending further from suture plane.
<i>Apex.</i> —Retuse.		<i>Ridges.</i> —Small, narrow ridge extending from base toward apex.
<i>Base.</i> —Retuse.		<i>Tendency to split.</i> —None.
<i>Stem cavity.</i> —Rounded to slightly elongated in suture plane. Average depth 11.7 mm. Average diameter 10.2 mm.	30	<i>Color.</i> —Varies from 7.5YR 5/6 to 7.5YR 4/8 when dry.
Stem:		Kernel:
<i>Size.</i> —Small. Average length 7.8 mm. Average diameter 4.3 mm.		<i>Size.</i> —Small. Average length 15.8 mm. Average width 10.4 mm. Average depth 5.5 mm.
<i>Color.</i> —Varies from 10Y 6/8 to 2.5GY 6/8.	35	<i>Form.</i> —Ovate.
Flesh:		<i>Viability.</i> —Viable, complete embryo development.
<i>Ripens.</i> —Evenly.		<i>Skin color.</i> —Varies from 5Y 9/6 to 5Y 8.5/6.
<i>Texture.</i> —Firm, meaty, non-melting.		
<i>Fibers.</i> —Few, small, tender.		Use:
<i>Firmness.</i> —Firm, comparable to other commercial peach varieties.	40	<i>Dessert.</i> —Market — local and long distance.
<i>Aroma.</i> —Heavy.		<i>Keeping quality:</i> Good, held firm in cold storage 3 weeks at 38° to 42° F. without shriveling, internal breakdown of flesh or appreciable loss of flavor.
<i>Amygdalin.</i> —Undetected.		<i>Shipping quality:</i> Good, showed minimal skin scarring or flesh bruising during picking, packing and shipping trials.
<i>Eating quality.</i> —Very good.		<i>Plant/fruit disease resistance/susceptibility:</i> 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.
<i>Flavor.</i> —Very good, a good balance between acid and sugar.	45	The invention claimed is:
<i>Juice.</i> —Moderate amount, enhances flavor.		1. A new and distinct variety of peach tree, substantially as illustrated and described.
<i>Acidity.</i> —Not available.		* * * * *
<i>Brix.</i> —Average Brix 10.7°, varies slightly with amount of fruit per tree and climatic conditions.		
<i>Pit cavity.</i> —Average length 30.6 mm. Average width 25.2 mm. Average depth 11.3 mm. Color varies from 5YR 5/12 to 5YR 5/10.	50	
<i>Color.</i> —Varies from 10YR 7/10 to 10YR 7/12.		
Skin:		
<i>Thickness.</i> —Medium.		
<i>Surface.</i> —Smooth.		

