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(54) **NECTARINE TREE, ‘BURNECTTWENTYSIX’**

(50) Latin Name: *Prunus persica* (subspecies
nucipersica)
Varietal Denomination: **Burnecttwentysix**

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patent is extended or adjusted under 35
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(57) **ABSTRACT**

A new and distinct variety of nectarine tree (*Prunus persica*
sub species *nucipersica*), denominated varietally as
‘Burnecttwentysix’, and which produces an attractively col-
ored firm-fleshed, acid, clingstone nectarine, which is mature
for harvesting and shipment approximately August 1 to
August 12 under ecological conditions prevailing in the San
Joaquin Valley of central California.

1 Drawing Sheet

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Botanical designation: The present invention relates to a
new, novel and distinct variety of Nectarine tree, *Prunus*
persica (subspecies *nucipersica*).

Varietal denomination: ‘Burnecttwentysix.’

BACKGROUND OF THE NEW VARIETY

The present variety of nectarine tree resulted from an on-
going program of fruit and nut tree breeding. The purpose of
this program is to improve the commercial quality of avail-
able deciduous fruit and nut varieties, and rootstocks, by
creating and releasing promising selections of *Prunus*, *Malus*
and *Juglans* species. To this end we make both controlled and
hybrid cross pollinations each year in order to produce seed-
ling populations from which improved progenies are evalu-
ated and selected.

The seedling ‘Burnecttwentysix’ was originated by us
from a population of seedlings grown in our experimental
orchards located near Fowler, Calif. The seedlings, grown on
their own roots, were the result of planting seed collected in
July of 2003, and which was derived from the yellow-fleshed
clingstone nectarine tree ‘i9.045’, which was the seed parent.
The pollen parent is unknown. Within this seedling popula-
tion one seedling, which is the present variety, exhibited
especially desirable characteristics and was subsequently
designated as ‘N11.033’. This promising seedling was
marked for subsequent observation. After the 2006 fruiting
season the new, promising variety of nectarine tree was
selected for advanced evaluation and repropagation.

ASEXUAL REPRODUCTION

Asexual reproduction of the aforementioned new and dis-
tinct variety of nectarine tree was accomplished by budding
the new nectarine tree to ‘Nemared’ Rootstock (USDA, non-
patented). This was performed by us in our experimental
orchard which is located near Fowler, Calif. Subsequent

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evaluations of these same trees have shown those asexual
reproductions run true to the original tree. All noteworthy
botanical and pomological characteristics of the original tree,
and its fruit, were established, and appear to be transmitted
through succeeding asexual propagations.

SUMMARY OF THE VARIETY

‘Burnecttwentysix’ is a new and distinct variety of nectar-
ine tree, which is considered of large size, and which has
vigorous growth. This new nectarine tree variety is also a
regular and productive bearer of relatively large, firm, acidic,
yellow fleshed, non-melting, clingstone fruit which have
good flavor and eating quality. The tree of the present variety
displays a medium chilling requirement of approximately
650 hours or more. Still further, the present tree also produces
relatively uniformly sized fruit throughout the tree. Addition-
ally, the fruit produced by the present tree has a very high
degree of red skin coloration, a firm flesh and appears to have
good handling and shipping qualities. The ‘Burnecttwen-
tysix’ Nectarine tree bears fruit which are ripe for commercial
harvesting and shipment on approximately August 1 to
August 12 under the ecological conditions prevailing in the
San Joaquin Valley of central California. In relative compari-
son to the ‘August Fire’ nectarine (U.S. Pat. No. 11,477),
which is the most similar commercial variety, in ripening
date, known to the inventors at this time, the present, new
variety, exhibits better overall fruit shape and in particular is
absent of suture separation which is more typically present at
the stem well than the fruit of the nectarine tree ‘August Fire’.
Additionally the present variety exhibits a significantly lower
degree of ‘corking’ which results from heat stress and renders
the fruit non-commercial. In view of the better fruit shape,
fewer suture defects, and lower levels of ‘corking’ the
‘Burnecttwentysix’ will allow more fruit to be commercially
packed than the closest commercially comparative variety.
The new variety is distinguishable from the yellow-fleshed

nectarine tree 'i9.045' isasmuch as this tree is ripe for harvesting and shipment 10 days later than the new variety.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawing, which is provided with this application, is a color photograph of the new variety of nectarine tree. The submitted photograph depicts two whole mature fruit, and one mature fruit which is dissected substantially in the equatorial plane, and which is seen from the apical perspective. This photograph also reveals the flesh and the stone characteristics thereof. The external coloration of the fruit, as shown, is typical of the fruit which are sufficiently matured for harvesting and shipment. Additionally, the photograph displays a sample vegetative shoot bearing typical leaves; and a typical stone; with the flesh removed. The colors in the photograph are as nearly true as is reasonably possible in a color representation of this type. Due to chemical development, processing, and printing, the leaves and fruit depicted in these photographs may or may not be accurate when compared to the actual specimen. For this reason, future color references should be made to the color plates (Royal Horticultural Society Fourth Edition, 2001.) and the descriptions provided, hereinafter.

NOT A COMMERCIAL WARRANTY

The following detailed description has been prepared to solely comply with the provisions of 35 U.S.C. §112, and does not constitute a commercial warranty, (either expressed or implied), that the present variety will in the future display all the botanical, pomological or other characteristics as set forth, hereinafter. Therefore, this disclosure may not be relied upon to support any future legal claims including, but not limited to, breach of warranty of merchantability, or fitness for any particular purpose, or non-infringement which is directed, in whole, or in part, to the present new variety.

DETAILED DESCRIPTION

Referring more specifically to the pomological details of this new and distinct variety of nectarine tree, the following has been observed during the sixth fruiting season under the ecological conditions prevailing at orchards located near the town of Fowler, county of Fresno, state of Calif. All major color code designations are by reference to The R.H.S. Color Chart (Fourth Edition, 2001) provided by The Royal Horticultural Society of Great Britain. Common color names are also occasionally used.

TREE

Size.—Generally — Considered medium-large as compared to other common commercial nectarine cultivars ripening in the same season of maturity. The tree of the present variety was pruned to a height of approximately 300.0 cm to about 310.0 cm at maturity. The average spread of the present tree is about 4.3 meters when measured at 4 years of age.

Vigor.—Considered moderately vigorous. The present variety grew from about 200.0 cm to 205.0 cm in height during the first growing season. The new nectarine tree variety was pruned to a height of approximately 150.0 cm during the first dormant season, and primary scaffolds were then selected for the desired tree structure.

Productivity.—Productive. The fruit set varies from 2.5 to several times more than the desired crop load. The fruit set is spaced by thinning to develop the remaining fruit into the desired market-sized fruit. The number of the fruit set varies with the prevailing climatic conditions, and the current cultural practices employed during the bloom period. Therefore, this characteristic is not distinctive of this new variety.

Bearer.—Regular. Fruit set has been heavy, and significant thinning was necessary during the past 6 growing seasons.

Form.—Upright, and pruned into a vase shape.

Density.—Considered medium dense. It has been discovered that pruning the branches from the center of the tree to obtain a resulting vase shape allows for proper air movement in the tree, and appropriate amounts of sunlight to enhance fruit color and renewal of fruiting wood throughout the entire tree.

Hardiness.—The present tree was grown and evaluated in USDA Hardiness Zone 9. The winter chilling requirements of the new tree are approximately 650 hours at a temperature below 7.0 degrees C. The present variety appears to be hardy under typical Central San Joaquin Valley climatic conditions.

TRUNK

Diameter.—Approximately 23.0 cm in diameter when measured at a distance of approximately 15.24 cm above the soil level, on trees which are six years old.

Bark texture.—Considered moderately rough, with numerous folds of papery scarfskin being present.

Lenticels.—Numerous flat, oval lenticels are present. The lenticels range in size from approximately 4.0 to about 7.0 millimeters in width; and from about 1.0 to about 2.0 millimeters in height. It should be noted that as the bark of the trees mature, the lenticels become less apparent and also less abundant.

Lenticel color.—Considered an Orange-Brown (RHS Greyed-Orange Group 166 D).

Bark coloration.—Variable, but it is generally considered to be Brown (RHS Greyed-Orange Group 177 A).

BRANCHES

Size.—Considered medium-large for the variety.

Diameter.—Average as compared to other nectarine tree varieties. The branches have a diameter of about 8.0 centimeters when measured on trees which are six years old.

Surface texture.—Average, and appearing furrowed on wood which is several years old.

Crotch angles.—Primary branches are considered variable between about 45 to about 54 degrees from the horizontal axis. This particular characteristic is not considered distinctive of the present variety, however.

Current season shoots.—Surface texture — Substantially glabrous.

Internode length.—Approximately 1.9 to about 2.4 cm. This tree characteristic is highly dependent upon plant vigor influenced by nutrition, soil quality, pruning and tree care and therefore is not particularly distinctive of the new variety.

Color of mature branches.—Medium brown (RHS Greyed-Orange 174 A).

Current season shoots.—Color — Yellow-green (RHS Yellow-Green Group 144 B). The color of the new shoot tips is considered a bright and yellow-green (RHS Green Group 139 B).

LEAVES

Size.—Considered medium-large for the species. Leaf measurements have been taken from vigorous, upright, current-season's growth, at approximately mid-shoot.

Leaf length.—Approximately 138.0 to about 154.0 millimeters.

Leaf width.—Approximately 36.0 to about 40.0 millimeters.

Leaf base shape.—Slightly oblique relative to the longitudinal axis of the leaf.

Leaf form.—Lancelolate.

Leaf tip form.—Acuminate.

Leaf color.—Upper Surface — Dark green (approximately RHS Green Group 139 A).

Leaf texture.—Glabrous.

Leaf color.—Lower Surface — Medium green (RHS Green Group 141 B).

Leaf venation.—Pinnately veined.

Mid-vein.—Color. — Light yellow-green (RHS Yellow-Green Group 144 C).

Leaf margins.—Generally — Slightly undulating. Form. — Considered crenate, occasionally doubly crenate. Uniformity. — Considered generally uniform.

Leaf petioles.—Size. — Considered medium long. Length. — About 7.0 to about 10.0 mm. Diameter. — About 2.0 to about 2.5 mm. Color. — Pale green (RHS Yellow-Green Group 144 A).

Leaf glands.—Size. — Considered generally small. About 1.0 mm in height, and about 2.0 mm in width. Number. — Generally one per side, occasionally two per side may be found. Rarely glands are absent. Type. — Reniform. Color. — Orange-brown (RHS Greyed-Orange Group 177 A).

Leaf stipules.—Size. — Medium for the variety, about 6.0 to about 12 mm in length, and about 1.0 to about 2.0 mm in width. Number. — Typically 2 per leaf bud, and up to 6 per shoot tip. Form. — Lanceolate in form, and having a serrated margin. Color. — Green (RHS Green Group 141 A) when juvenile, but then graduating to a brown color (RHS Greyed-Orange Group 177 B) with advancing senescence. The stipules are considered to be early deciduous.

FLOWER

Flower buds.—Generally — The floral buds, depending upon the stage of development, are approximately 8.0 millimeters wide; and about 13.0 millimeters long; conic in form; and slightly appressed relative to the bearing shoot.

Flower buds.—Color — The bud scales are reddish-brown (approximately RHS Greyed Purple Group 183 B). The buds are considered hardy under typical central San Joaquin Valley climatic conditions.

Hardiness.—No winter injury has been noted during the last several years of evaluation in the central San Joaquin Valley. The current variety has not been intentionally subjected to drought or heat stress, and therefore this information is not presently available.

Date the first bloom was observed.—Mar. 1, 2009.

Blooming time.—Considered early to mid-season in relative comparison to other commercial nectarine cultivars grown in the central San Joaquin Valley. Date of full bloom was first observed on Mar. 8, 2009. The date of full bloom varies slightly with the prevailing climatic conditions, and cultural practices which are employed in the early season.

Duration of the bloom.—Approximately 10 days. This characteristic varies slightly with the prevailing climatic conditions.

Flower type.—The variety is considered to have a non showy-type flower.

Flower size.—Flower diameter, at full bloom, is approximately 41.0 to about 46.0 millimeters.

Bloom quantity.—Considered abundant.

Flower bud frequency.—Normally 2 flower buds appear per node. On occasion 1 bud per node may be observed. Rarely more than 2 flower buds per node are observed.

Petal size.—Generally — Considered relatively small for the species. Length. — Approximately 16.0 to about 19.0 millimeters. Width. — Approximately 9.0 to about 12.0 millimeters.

Petal form.—Rotund to slightly ovate.

Petal count.—Typically 5; Stamen Count, approximately 35 stamens per flower.

Petal texture.—Glabrous.

Petal color.—Somewhat variable from a light pink (RHS Red-Purple Group 62 B) to a medium pink (RHS Red-Purple Group N57 C).

Fragrance.—Slight.

Petal claw.—Form — The claw is considered inversely triangular, wedged shape, with rounded angles; and has a generally small size when compared to other similar varieties. Length. — Approximately 8.0 to about 12.0 millimeters. Width. — Approximately 6.0 to about 9.0 millimeters.

Petal margins.—Generally considered variable, from nearly smooth, to moderately undulate.

Petal apex.—Generally — The petal apices appear entire with a broad, shallow apical groove.

Flower pedicel.—Length. — Considered medium, and having an average length of approximately 4.0 to about 6.0 millimeters. Diameter. — Considered average, approximately 2.0 to 3.0 millimeters. Color. — A pale green when the bud scales are removed (RHS Greyed-Green Group 195 A).

Floral nectaries.—Color. — An orange-brown (RHS Greyed-Orange Group N172 A).

Calyx.—Surface Texture. — Generally glabrous. Color. — A dull red (approximately RHS Greyed-Red Group 178 A).

Sepals.—Surface Texture. — The surface has a short, fine, pubescent texture. Size. — Average; and ovate in form, about 6.5 mm in length; and about 5.0 mm. in width. Color. — Upper Surface — A dark reddish purple (approximately RHS Greyed-Purple Group 187C); Color — Lower Surface — Grey-Brown (RHS N 199A).

Anthers.—Generally. — Small in size. Color. — Red to reddish-purple (approximately RHS Greyed-Purple Group 187 D) prior to dehiscence.

Pollen production.—Pollen is abundant, and has a yellow color (approximately RHS Yellow Group 11 A).

Filaments.—Size. — Variable in length, approximately 14.0 to about 17.0 millimeters in length. Color. — Considered a pale pink (RHS Red-Purple Group 65 C) at maturity.

Pistil.—Number. — Normally 1, very rarely 2. Generally. — Average in size. Length. — Approximately 19.0 to about 21.0 millimeters including the ovary. Color. — Considered a very pale green (approximately RHS Yellow-Green Group 145 C). Surface texture. — The variety has a long glabrous pistil.

FRUIT

Maturity when described.—Firm ripe condition (shipping ripe). Date of first picking. — approximately Aug. 1, 2009 Date of last picking. — Aug. 12, 2009. The date of harvest varies slightly with climatic conditions.

Size.—Generally — Considered large, and uniform. *Average cheek diameter*.—Approximately 62.0 to about 72.0 millimeters.

Average axial diameter.—Approximately 61.0 to about 70.0 millimeters.

Typical weight.—Approximately 250.0 grams. This characteristic is highly dependent upon the prevailing cultural practices, and therefore is not particularly distinctive of this new variety.

Fruit form.—Generally — Rounded to slightly elongated along its axis. The fruit is generally uniform in symmetry.

Fruit suture.—Shallow, and extending from the mid-equatorial region to the apex. No apparent callousing or stitching exists along the suture line.

Suture.—Color — The background color appears to be a medium yellow (approximately RHS Yellow-Orange Group 15 B), with some occasional red coloration (approximately RHS Red Group 46 A).

Ventral surface.—Form — Full.

Apex.—Shape — Rounded.

Base.—Shape — Slightly retuse.

Stem cavity.—Shape — Rounded and relatively shallow. The average depth of the stem cavity is about 1.0 cm. The average width of the stem cavity is about 2.4 cm.

Fruit skin.—Thickness. — Considered medium in thickness; and tenacious to the flesh. Texture. — Glabrous. Taste. — Slight astringency is noted. Tendency to crack. — Cracking has not been observed. Russeting has not been observed to date on the oldest bearing trees.

Blush color.—The blush color is variable from a medium red (approximately RHS Red Group 44 A) to a dark red (approximately RHS Red Group 46 A). Blush color ranges from approximately 70% to about 85% of the fruit surface depending upon the sunlight exposure and prevailing growing conditions.

Ground color.—Generally a light yellow (approximately RHS Yellow-Orange Group 15 B).

Fruit stem.—Moderate in length, approximately 6.0 to about 9.0 millimeters. Diameter. — Approximately 2.0 to about 3.0 millimeters. Color. — Light tan (approximately RHS Greyed-Orange Group 164 D).

Flesh.—Ripens. — Evenly. Texture. — Firm, and dense. Considered non melting. Fibers. — Few, small, and tender ones are typically found. Aroma. — Slight. Eating Quality. — Considered good. Flavor. — Con-

sidered sweet and acidic. The flavor is considered pleasant. Juice. — Moderate. Brix. — About 14.5 degrees. This characteristic varies slightly with the number of fruit per tree; the prevailing cultural practices; and the surrounding climatic conditions. Flesh Color. — Yellow-orange (approximately RHS Yellow-Orange Group 20 B). As maturity increases a reddish pigmentation (approximately RHS Red Group 46 B) develops.

STONE

Type.—Clingstone.

Size.—Considered medium for the variety. The stone size varies with the resulting crop load, and tree vigor, and therefore this trait is not considered a distinguishing characteristic of this new variety.

Length.—Average, about 27.0 to about 29.0 millimeters.

Width.—Average, about 23.0 to about 25.0 millimeters.

Diameter.—Average, about 16.0 to about 21.0 millimeters.

Form.—Obovoid.

Base.—The stone is slightly oblique relative to the stone's vertical axis.

Apex.—Shape — The stone apex has a small acute tip.

Stone surface.—Surface Texture — Substantial pitting is evident, in general, from the base past the equatorial plane. Grooving is usually observed along the pit margin near the tip and on the ventral and dorsal sides. Ridges. — Texture — The surface texture is generally rounded. Ventral Edge. — Width — Considered medium, and having a dimension of approximately 3.0 to about 4.0 millimeters when measured at mid-suture. Dorsal edge. — Shape — Full, heavily grooved, and having relatively smooth edges.

Stone color.—The color of the dry stone is a dull red, approximately (RHS Orange-White Group 159 A).

Tendency to split.—Very rarely splits have been noted.

Kernel.—Generally — The kernel is considered mature at fruit ripening dates. Form. — Considered ovoid; Kernel size — about 12-15 mm. in length; about 5.0-8.0 mm. in width; and about 3.0 to 4.0 mm in thickness. Pellicle. — Slightly pubescent. Color. — Considered to be a pale brown (Yellow-White Group 158 A).

Use.—The new variety 'Burnecttwentysix' is considered to be a Nectarine tree which matures early in the season, and which produces fruit, which are considered firm, attractively colored, and which are useful for both local and long distance shipping.

Keeping quality.—Appears excellent. Fruit has stored well for up to 30 days after harvest at 1.0 degree Celsius.

Shipping quality.—Good. The fruit of the new nectarine tree variety showed minimal bruising of the flesh, or skin damage, after being subjected to normal harvest and packing procedures.

Resistance to insects and disease.—No particular susceptibilities were noted. The present variety has not been tested to expose or detect any susceptibilities or resistances to any known plant and/or fruit diseases.

Although the new variety of nectarine tree possesses the described characteristics when grown under the ecological conditions prevailing near Fowler, Calif., in the central part of the San Joaquin Valley of California, it should be understood

that variations of the usual magnitude and characteristics incident to changes in growing conditions, fertilization, pruning, pest control and horticultural management are to be expected.

Having thus described and illustrated our new variety of nectarine tree, what we claim is new, and desire to secure by plant Letters Patent is:

5 1. A new distinct variety of nectarine tree, substantially as illustrated and described, and which is characterized principally as to novelty by producing an attractively colored, firm-fleshed, acid, clingstone nectarine which is mature for harvesting and shipment approximately August 1 to August 12 under the ecological conditions prevailing in the San Joaquin Valley of central California.

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