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# United States Patent [19]

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Zaiger et al.

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- [54] NECTARINE TREE "RED GLO"
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- [57] **ABSTRACT**
- A new and distinct variety of nectarine tree with the unique combination of desirable features:
1. Early maturity of large size fruit.
  2. Low winter chilling requirement of approximately 250 hours.
  3. Fruit with firm flesh providing good handling and shipping quality.
  4. Fruit with an attractive red skin color.
  5. Heavy and regular production.
  6. Ability to grow and produce in southern areas with warm winter climatic conditions, such as Indio, Calif.
  7. Fruit with good flavor and eating quality.

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1 Drawing Sheet

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### ORIGIN OF THE VARIETY

The new and distinct variety of nectarine tree originated in our experimental orchard located near Modesto, Calif. from a cross between two selected seedlings. The female parent was a peach with the identification number of 37G870 and originated from a cross between Ruby Gold Nectarine (U.S. Plant Pat. No. 3,101) and a low chilling peach of unknown origin. The pollen parent was a nectarine which originated from a cross between the low chilling nectarine Sun Red (non-patented) and the nectarine June Glo (U.S. Plant Pat. No. 5,228). The seeds were collected and grown in our experimental orchard under close observation and one low chilling seedling exhibited especially desirable early maturing fruit and was selected for asexual reproduction and commercialization.

### ASEXUAL REPRODUCTION OF THE VARIETY

The new and distinct nectarine variety, asexually propagated by budding, as performed by us in our experimental orchard located near Modesto, Calif., shows that said characteristics run true to form and are established and transmitted through succeeding propagations.

### SUMMARY OF THE VARIETY

The present new and distinct variety of nectarine tree is of large size, vigorous upright growth and a productive and regular bearer of large, firm, yellow flesh, clingstone fruit with good flavor and eating quality. The fruit is further characterized by having a high degree of attractive red skin color and having good storage and shipping quality. In comparison to the low chilling paternal parent, Sun Red Nectarine (non-patented), the new variety has firmer flesh, a higher degree of attractive red skin color and matures approximately one month earlier. In comparison to June Glo Nectarine (U.S. Plant Pat. No. 5,228), the new variety is lower in winter chilling requirement by approximately 600 hours and will grow and produce in the more southern fruit growing areas such as the Coachella Valley of California.

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### PHOTOGRAPH OF THE VARIETY

The accompanying photographs show typical specimens of the foliage and fruit of the new nectarine variety, with the upper and lower surface of the leaves being illustrated, the exterior and a fruit divided in its suture plane to reveal flesh, stone cavity and stone coloration. The photographs were taken shortly after being picked (firm ripe) and the colors are as nearly true as is reasonably possible in a color photograph of this type.

### DESCRIPTION OF THE VARIETY

The following is a detailed botanical description of the new and distinct variety of nectarine tree, its flowers, foliage and fruit as based on observation of specimens grown near Modesto, Calif. with color terminology (except those in common terms) in accordance with Reinhold Color Atlas by A. Kornerup and J. H. Wanscher.

#### Tree:

- Size.*—Large.
- Vigor.*—Vigorous.
- Form.*—Upright. Usually pruned to vase shape.
- Production.*—Productive.
- Bearing.*—Regular.
- Density.*—Medium dense.

#### Trunk:

- Size.*—Medium to stocky.
- Texture.*—Shaggy to rough.
- Color.*—Grayish brown to coffee brown (5-E-6) to (5-F-7).

#### Branches:

- Size.*—Medium.
- Texture.*—Smooth to medium rough; varies with maturity.
- Lenticels.*—Medium number. Large size.
- Color.*—Light brown to brown (5-D-4) to (5-D-6).

#### Leaves:

- Size.*—Medium — slightly variable. Average length — 5½". Average width — 1¼".
- Texture.*—Smooth.

*Petiole.*—Medium length. Medium thickness.  
Grooved in upper surface.  
*Glands.*—Reniform. Number varies from 1 to 3.  
Average number 2. Mainly located on base of  
leaf blade, occasionally found on upper portion 5  
of petiole.  
*Form.*—Lanceolate. Pointed.  
*Margin.*—Crenate.  
*Color.*—Upper surface — green to dark green (28-  
F-5) to (28-F-8). Lower surface — grayish green 10  
to green (28-E-6) to (28-E-7).

Flower buds:

*Size.*—Medium to large.  
*Form.*—Conical, plump.  
*Length.*—Medium.  
*Pubescence.*—Pubescent.

Flowers:

*Blooming period.*—Early — Feb. 10, 1990 to Feb.  
26, 1990. Varies slightly with climatic condi- 20  
tions.  
*Size.*—Large — showy.  
*Pollen.*—Present — self fertile.  
*Color.*—Pink.

Fruit:

*Maturity when described.*—Firm ripe. 25  
*Date of first picking.*—May 29, 1990.  
*Date of last picking.*—June 6, 1990.  
*Size.*—Large — comparatively uniform. Average  
size axially —  $2\frac{3}{4}$ ". Average transversely in su- 30  
ture plane —  $2\frac{3}{4}$ ".  
*Form.*—Globose — nearly symmetrical, only  
slightly flattened at stem end.  
*Suture.*—Shallow but pronounced, extends from  
base to apex. 35  
*Ventral surface.*—Nearly rounded, only slightly  
lipped.  
*Cavity.*—Rounded to slightly elongated in suture  
plane. Average depth —  $7/16$ ". Average breadth  
—  $\frac{3}{4}$ ".  
*Apex.*—Slightly retuse on majority of fruit; varies  
from slight point to slight depression.  
*Base.*—Retuse.

Skin:

*Thickness.*—Medium. 45  
*Texture.*—Medium tough-tenacious to the flesh.  
*Tendency to crack.*—None.  
*Down.*—Wanting.  
*Color.*—Dark yellow to light orange ground color  
(4-A-8) to (5-A-8), overspread with red (9-B-8) 50  
to (9-C-8).

Flesh:

*Texture.*—Firm, meaty.  
*Amygdalin.*—Undetected.  
*Juice.*—Moderate.  
*Ripens.*—Even.  
*Flavor.*—Good. A desirable balance between sugar  
and acid.  
*Aroma.*—Slight.  
*Eating quality.*—Good.  
*Fibers.*—Small and tender.  
*Color.*—Light yellow to yellow (4-A-5) to (4-A-7).

Stone:

*Type.*—Clingstone.  
*Size.*—Large. Average length —  $1\frac{3}{8}$ ". Average  
width— $1\frac{1}{8}$ ". Average thickness —  $\frac{7}{8}$ ".  
*Form.*—Ovoid. 15  
*Base.*—Usually rounded — varies from rounded to  
straight.  
*Apex.*—Usually rounded, with only a slight pistil  
point on some stones.  
*Sides.*—Equal to unequal.  
*Surface.*—Pitted throughout, heavier toward base.  
Irregularly furrowed toward apex. Ridges usu-  
ally rounded.  
*Tendency to split.*—Very slight.  
*Color.*—Light brown to brown (6-C-7) to (6-D-7). 25

Use:

*Market.*—local and long distance. Dessert.

Keeping quality: Good.

Shipping quality: Good.

The new and distinct nectarine tree, its flowers, fo-  
liage and fruit herein described may vary in slight detail  
due to climatic, soil and ecological conditions under  
which the variety may be grown. The botanical de-  
scription is that of the new variety grown under the  
conditions prevailing at Modesto, Calif. 35

The following is claimed:

1. A new and distinct variety of nectarine tree sub-  
stantially as illustrated and described; characterized by  
its large size, vigorous upright growth and being a regu-  
lar and productive bearer of early maturing, large, firm,  
yellow flesh, clingstone fruit with good flavor and eat-  
ing quality; the fruit is further characterized in compari-  
son to its low chilling paternal parent Sun Red Nectar-  
ine (non-patented), by having firmer flesh, a higher  
degree of attractive red skin color and ripening one  
month earlier, and in comparison to June Glo Nectarine  
(U.S. Plant Pat. No. 5,228), the new variety is lower in  
chilling by approximately 600 hours and will grow and  
produce in more southern fruit growing areas. 45

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