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(12) **United States Plant Patent**  
**Friday**

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(54) **PEACH TREE NAMED "P.F. 19-007"**

(50) Latin Name: *Prunus persica*  
Varietal Denomination: **P.F. 19-007**

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 306 days.

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(52) **U.S. Cl.** ..... **Plt./197**

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Plt./196

See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct variety of peach, *Prunus persica*, tree  
having the following unique combination of desirable fea-  
tures:

1. The limbs of the tree naturally grow at wide angles  
creating a wide-spreading tree.
2. A fruit with a very dark skin that remains firm when  
ripe.
3. A highly colored, peach cultivar that matures a few days  
before the variety P.F. 23 U.S. Plant Pat. No. 164 and  
which hangs on the tree for many days staying  
extremely firm.

**1 Drawing Sheet**

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Botanical classification: *Prunus persica*.

**ORIGIN OF VARIETY**

The new peach tree (hereinafter referred to as the 'P.F.  
19-007' peach tree) was originated by Paul Friday in an  
experimental orchard, which is maintained for the purposes  
of breeding peach trees, located in Coloma, Mich. Coloma  
is located in the southwest section of Michigan, USDA  
Hardiness Zone 6a, with observed temperature ranges of  
minus 12 degree Fahrenheit to 90 degree Fahrenheit, also  
with annual rainfall of about 40 inches.

In an ongoing mass selection breeding program, unpat-  
ented superior seedlings of unrecorded parentage are main-  
tained as seed sources for the production of seeds which are  
collected and planted in mass. The seed producing parent  
trees are maintained solely as proprietary trees for breeding  
purposes and have not been released from the experimental  
orchard, where such trees can be evaluated for their adapt-  
ability to local and regional growing conditions. Seeds  
resulting from open pollination of the trees in the experi-  
mental orchard are regularly planted in mass to produce new  
populations of seedlings, which are cultured and monitored  
to maturity. Trees with superior attributes are retained for  
further observation and testing, and contribute seeds to  
advancing generations of new populations of seedlings.

The tree of this application 'P.F. 19-007', was a selection  
from one such unpatented seedling population, and was  
based on the numerous superior genetic attributes of this tree  
which are described in the botanical description to follow.  
While not comprehensive, the details of the botanical  
description to follow are believed to be a reasonably com-  
plete botanical description of the tree of this disclosure.

**ASEXUAL REPRODUCTION OF THE VARIETY**

The new and distinct variety of peach tree was asexually  
propagated by budding as performed in an experimental  
orchard of Paul Friday Farms, Inc., located in Coloma,  
Mich. The asexual propagation demonstrates that such

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reproduction of the characteristic of the tree are consistent  
and are established and transmitted through succeeding  
propagation.

**SUMMARY OF THE VARIETY**

The new and distinct variety of peach tree is above  
average height and of spreading growth and a regular and  
productive bearer of peaches. A distinct characteristic of the  
'P.F.19-007' peach tree is its medium vigor having growth of  
about twenty-four inches (24') per year. The blossoms bloom  
in mid-season and are characterized by being contracted or  
partially spread to approximately 3/4-inch when in full  
bloom. At the same time five petals of the blossoms are of  
lesser length than the length of petals of the normal showy  
blossom as exemplified by the 'Loring' (non-patented)  
peach blossom.

The blossoms of the present peach tree at full bloom may  
be characterized as being non-showy. More specifically, the  
blossoms of the present peach tree have radically projecting  
and angularly Spaced five blossom petals to form a blossom  
having a diameter of about 3/4-inch across the blossoms.

The flesh of the fruit of the present peach tree is very firm  
and is yellow.

The skin is smooth having moderate to little down and is  
very dark red color overlying a yellow ground color. The  
yellow background covers approximately ten percent (10%)  
of its surface at maturity. At maturity, the peach is spherical  
having an average diameter of about 2 7/8".

The fruit produced by this tree has firm, and non-melting  
flesh, and thereby has the attendant resistance to blemishes  
and soft spots in harvesting, shipping, and handling due to  
bruising. The firmness of the fruit flesh is sufficient to allow  
the flesh to yield and be restored when bumped or dropped  
without the resulting soft spots as would be experienced in  
most late season peaches of this market class. Thus, fruit of  
this tree remains more attractive to the ultimate buyer, the  
consumer, and thereby will command premium prices for  
the late fresh desert market.

The fruit matures a few days before the variety P.F. 23 U.S. Plant Pat. No. 164 and will hang on the tree for many days, staying extremely firm. The fruit as mentioned heretofore is of dark red color overlying a yellow background which covers only about ten percent (10%) of its surface and has a very attractive appearance.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

In the accompanying photographic illustrations, the top photograph shows the leaves of the plant, depicting both upper and lower sides, length of the leaves and internodes length.

The bottom photograph shows three whole peaches of this cultivar depicting dark red color. A fruit has been split on plane ninety degrees to the suture plane to depict the fruit flesh in cross section. The conformance of the pit cavity is illustrated as is the desirable ratio of the size of the stone to the fruit size of this tree. A ruler has been placed in the photograph showing the large size of the fruit.

#### DESCRIPTION OF VARIETY

The detailed botanical description of the foliage and fruit of the new variety of peach tree is Based upon observations of the specimens grown at Coloma, Mich. with the color terminology, other than the terminology expressed in common terms, in accordance with the Pantone Matching System (PMS) as used internationally to identify printed colors.

Botanical classification: *Prunus persica* cultivar 'P.F. 19-007'.

#### Tree:

- Age*.—Ten (10) years.
- Height*.—Unpruned 11½ feet.
- Width*.—Unpruned 12 feet.
- Size*.—Medium.
- Vigor*.—Medium.
- Density*.—Medium.
- Form*.—Spreading.
- Production*.—Very good, requires heavy thinning.
- Bearer*.—Good.
- Disease resistance to bacterial leaf and fruit spot*.—Good resistance.

#### Trunk:

- Bark*.—Gray (pantone # 416).
- Size*.—Medium.
- Surface*.—Smooth.
- Diameter*.—4"–18" above ground at 10 years of age.
- Lenticels*.—Smooth.
- Lenticels color*.—Pantone # 450.
- Lenticels size*.—¼" to ⅜".

#### Branches:

- Size*.—Medium — 27/16" diameter at trunk union.
- Surface*.—Smooth.
- Lenticels per square inch on branch*.—Eight (8).
- Lenticels color*.—Pantone # 407.
- Lenticels size*.—⅛" to ⅜".
- Branch color*.—Gray (Pantone # 416).
- Crotch angles*.—70 degree angle.
- Internode length*.—9/16".

#### Leaves:

- Size*.—Average length 5½" — average width 1½".
- Form*.—Lanceolate.
- Thickness*.—Medium.
- Texture*.—Glabrous.
- Margins*.—Serrate.

*Petiole length*.—7/16".

*Glands*.—1 to 2 either side of the petiole, notably not very apparent on the leaf.

*Gland shape*.—Round.

*Gland color*.—Noteably Green.

*Color*.—Adaxial (top) of the leaf green (Pantone # 378).

*Color*.—Abaxial (bottom) of leaf green (Pantone # 391).

#### Flowerbuds:

*Size*.—½" long — 5/16" wide.

*Shape*.—Ovoid.

*Color*.—Pink (Pantone # 212).

#### Flowers:

*Blooming period*.—Apr. 24, 2003 to Apr. 30, 2003.

*Bloom size*.—¾" diameter.

*Size of petals*.—½" long — ¼" wide.

*Shape of petals*.—Cupped.

*Number of petals*.—Five (5).

*Sepal size*.—¼" long — 3/16" wide.

*Sepal shape*.—Cupped.

*Sepal color*.—Green (Pantone # 384).

*Number of anthers*.—Forty (40).

*Anthers color*.—Brown (Pantone # 132).

*Number of stamens*.—Forty (40).

*Stamen length*.—5/16".

*Stamen color*.—Dark charcoal (Pantone #417).

*Pistil length*.—3/8".

*Pistil color*.—Light green (Pantone #387).

*Pollen*.—Present.

*Flower color*.—Pink (Pantone # 243).

*Flowers per cluster*.—Two (2).

*Fragrance*.—Very Fragrant.

#### Fruit:

*Maturity when described*.—Full Maturity.

*Date of first picking*.—Aug. 22, 2003.

*Date of last picking*.—Aug. 28, 2003.

*Size*.—Average 2¾".

*Form*.—True spherical shape.

*Suture*.—Not pronounced.

*Weight*.—Average 7.3 oz.

#### Skin:

*Thickness*.—Medium as compared to the species.

*Texture*.—Firm.

*Tendency to crack*.—None.

*Down*.—Moderate.

*Color*.—90% Red (Pantone # 181) over yellow (Pantone # 130).

#### Flesh:

*Texture*.—Extremely firm, non-melting, free of fiber.

*Ripens*.—Evenly.

*Flavor*.—Very good.

*Aroma*.—Pleasant.

*Eating quality*.—Excellent.

*Color*.—Dark yellow (Pantone # 131) with dark red around pit.

*Pit cavity color*.—Dark Red (Pantone # 187).

#### Stone:

*Type*.—Freestone.

*Size*.—1½/16" long — 1" wide — ¾" thick.

*Form*.—Ovoid.

*Base*.—Flat.

*Apex*.—Pointed.

*Sides*.—About even.

*Surface*.—Furrowed.

*Color*.—Brown (Pantone # 180).

*Tendency to crack*.—About 4%.

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*Kernel.*— $\frac{5}{8}$ " long — 1" wide —  $\frac{3}{4}$ " thick (about 3 out of 10 Double Kernel).

Use: Dessert.

Shipping quality: Very Good.

Keeping quality: Very good — fruit has been kept 2 weeks and longer without losing texture or flavor.

Disease resistance: The fruit is resistant to brown rot.

The tree and its fruit herein described may vary in slight detail as a result of differences in climatic or soil conditions

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or cultural practices under which the tree may be grown. It is to be understood that the description of the new variety as set forth herein is that of the tree grown under the ecological conditions prevailing at Coloma, Mich.

What is claimed is:

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

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