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(54) **SWEET CHERRY TREE NAMED ‘IFG  
CHER-THREE’**

(50) Latin Name: *Prunus avium*  
Varietal Denomination: **IFG Cher-three**

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(57) **ABSTRACT**

This invention is a new and distinct sweet cherry tree  
denominated ‘IFG Cher-three’. The new sweet cherry tree is  
characterized by producing medium sized dark red fruits  
having reniform shape. Fruits ripen early about Apr. 23,  
2014 in Delano Calif. The ‘IFG Cher-three’ has very firm,  
medium acid fruit with a good cherry flavor. Fruits are  
tolerant of rain induced cracking and high temperature  
induced double fruit. The tree has a medium low chilling  
requirement of approximately 300 to 400 hours.

**1 Drawing Sheet**

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Latin name of the genus and species claimed: *Prunus  
avium*.

Variety denomination: ‘IFG Cher-three’.

**BACKGROUND OF THE INVENTION**

The new and distinct sweet cherry tree described and  
claimed herein originated from open pollinated seeds of  
fruits of an early ripening unidentified female parent located  
in Bakersfield, Kern County, Calif. collected in May 2001.  
The male parent is unknown. The seeds were stratified,  
germinated and the resulting 285 seedlings were planted in  
the field near Delano, Kern County, Calif. in April 2002. The  
present variety of sweet cherry tree was selected as a single  
plant in May 2005 and was first asexually propagated in  
January 2006 by grafting onto *Prunus mahaleb* rootstock.  
This propagule was found to reproduce true-to-type by  
asexual propagation. All propagation was done near Delano,  
Kern County Calif.

**BRIEF SUMMARY OF THE INVENTION**

Sweet cherries have traditionally been grown in climates  
with long cold winters and cool to moderately warm sum-  
mers. Such climates provide enough cold winter tempera-  
tures to allow normal growth to resume in the spring and  
summer temperatures that are low enough not to induce  
production of unmarketable double or spurred fruit, but it  
limits the seasonality that cherries are available. The sweet  
cherry breeding program focuses on developing types of  
cherries that will grow in regions with low winter chilling  
and high summer temperatures so that the fruit will ripen  
before fruit in traditional growing regions.

The new sweet cherry tree ‘IFG Cher-three’ is character-  
ized by producing medium size dark red fruits having

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reniform shape. Fruits ripen early about three to five days  
ahead of the ‘Brooks’ variety (U.S. Plant Pat. No. 6,676).  
The ‘IFG Cher-three’ has very firm, medium acid fruit with  
a good cherry flavor. Fruits are tolerant of rain induced  
cracking. The tree has a medium low chilling requirement of  
about 300 to 400 hours, slightly lower than the ‘Brooks’  
variety of about 500 hours. It produces fewer doubled and  
spurred fruits as compared to the ‘Brooks’ variety in high  
summer temperature regions such as the Southern San  
Joaquin Valley of Calif. Fruits of ‘IFG Cher-three’ have  
medium long, thick stems that remain attached and stay  
green during storage and shipping.

In comparison to the ‘Brooks’ variety, which is a major  
variety grown in warm regions, the present variety ripens  
about three to five days earlier, and has more desirable  
darker red skin and flesh. It also has fewer undesirable  
doubled and spurred fruits as compared to ‘Brooks’ and has  
superior storage characteristics. In comparison to its female  
parent, the present variety has larger, firmer fruits. In com-  
parison to the Tulare (U.S. Plant Pat. No. 6,407), the ‘IFG  
Cher-three’ produces fruit that ripen approximately six to  
eight days earlier.

**BRIEF DESCRIPTION OF THE DRAWING**

The accompanying photographic drawing in FIG. 1 illus-  
trates in full color ‘IFG Cher-three’, taken from an 8-year  
old tree. The photograph was taken outdoors with indirect  
lighting. The colors are as nearly true as is reasonably  
possible in a color representation of this type.

An actively growing shoot tip collected at harvest can be  
seen in the upper portion of the drawing.

Typical mature fruit and fruit in cross-section are dis-  
played on the lower half of the drawing. Typical cleaned and  
dried fruit pits are displayed on the lower half of the  
drawing.



DETAILED BOTANICAL DESCRIPTION OF  
THE INVENTION

Throughout this specification, color names beginning with a small letter signify that the name of that color, as used in common speech, is aptly descriptive. Color names beginning with a capital letter designate values based upon R.H.S. Colour Chart, published in 2001 by The Royal Horticultural Society, London, England.

Throughout this specification subjective description values conform to those set forth by the International Board for Plant Genetic Resources (IBPGR) 'Cherry Descriptor List' (*Prunus* spp.) (1985) which was developed with full support from the Commission of the European Communities (CEC) Programme Committee for Plant Disease Resistance Breeding and the Use of Genebanks.

The descriptive matter which follows pertains to 'IFG Cher-three' plants grown in the vicinity of Delano, Kern County, Calif. during 2013 to 2014, and is believed to apply to plants of the variety grown under similar conditions of soil and climate elsewhere:

Tree:

General:

*Age*.—8 yrs. old.

*Height*.—About 2.4 M when pruned.

*Width*.—About 3.2 M when pruned.

*Vigor*.—Medium.

*Density of foliage*.—Medium.

*Form*.—Spreading.

*Branching*.—Strong.

*Resistance to*.—Insects: Average typical of *Prunus avium* species. Diseases: Average typical of *Prunus avium* species.

*Chilling requirements*.—Low.

*Graft compatibility*.—Good; produces compatible graft unions with *Prunus avium*, 'Mazzard' seedling (non-patented) and *Prunus mahaleb* seedlings (non-patented).

Trunk:

*Trunk diameter of 8 year old trees, 30 cm above the soil line*.—About 17.7 cm.

*Lenticel size*.—Medium.

*Lenticel dimensions*.—Length: About 6 mm. Width: About 2 mm.

*Lenticel shape*.—Elliptical shape oriented horizontally.

*Lenticel color*.—Greyed-orange: 196B.

*Trunk surface texture*.—Medium.

*Bark color*.—Brown: N200C.

Branches:

1-year old wood:

*Vertical top growth length*.—Medium: About 58.8 cm.

*Horizontal growth length*.—Medium: About 46.5 cm.

*Diameter*.—Vertical growth: About 0.9 cm. Horizontal growth: About 0.8 cm.

*Internode length*.—Short: About 2.8 cm.

*Number of lenticels*.—Few: approximately 5 lenticels per linear cm.

*Lenticel size*.—Small.

*Lenticel dimensions*.—Length: About 0.1 cm. Width: About 0.1 cm.

*Lenticel shape*.—Round.

*Bark color*.—The following colors were observed: Greyed-red: 178A and Greyed-orange: 177B.

2-year old wood:

*Length*.—Short: About 31.4 cm.

*Diameter*.—About 1.1 cm.

*Internode length*.—Short: About 2.5 cm.

*Number of lenticels*.—Few: Approximately 4 lenticels per linear cm.

*Lenticel size*.—Small.

*Lenticel dimensions*.—Length: About 0.3 cm. Width: About 0.1 cm.

*Lenticel shape*.—Elliptical shape oriented horizontally.

*Bark color*.—The following colors were observed: Greyed-orange: 177B and 177C.

Buds:

Vegetative buds:

*Shape*.—Elongated.

*Vegetative bud dimensions*.—Length: About 0.7 cm. Width: About 0.3 cm.

*Vegetative bud burst*.—Feb. 8, 2014.

Flower buds:

*Flower bud dimensions*.—Length: About 1.0 cm. Width: About 0.4 cm.

*Shape*.—Oval.

*Placement*.—At bud positions 1 to 8 on 1-year wood.

*Average number of flower buds on first year wood*.—About 7.

*Number of flower buds per spur on second year wood*.—2 to 4. Average: About 3.

*Color*.—The following colors were observed: Greyed-orange: 166A and 177A.

*Flower bud burst*.—Feb. 11, 2014.

Leaves:

Mature leaves:

*Leaf size*.—Small.

*Leaf dimensions*.—Length: About 14.6 cm. Width: About 6.1 cm.

*Leaf shape*.—Elongated ovate: Symmetric on both sides of central axis.

*Shape of tip*.—Acute: broadly.

*Shape of base*.—Oblique.

*Margin*.—Serrated: regular: pointed.

*Leaf profile*.—Involute.

Upper surface:

*Upper surface pubescence*.—None.

*Upper leaf surface color*.—Green: 137A.

*Surface texture*.—Smooth.

Lower surface:

*Lower surface pubescence*.—Medium to slightly dense.

*Lower leaf surface color*.—Yellow-green: 146A.

Petiole:

*Petiole dimensions*.—Length: About 2.9 cm. Width: About 0.2 cm.

*Upper surface of petiole color*.—Greyed-orange: 166A.

*Lower surface of petiole color*.—Yellow-green: 146D.

*Petiole groove*.—Narrow: Approximately 0.5 mm.

*Petiole pubescence*.—Very sparse.

*Venation*.—Arcuate.

*Vein color*.—Yellow-green: 144D.

Glands:

*Number of glands*.—2 to 4.

*Gland dimensions*.—Length: About 2.0 mm. Width: About 1.6 mm.

*Gland shape*.—Globose.

*Gland location*.—On petiole.

*Gland color*.—The following colors were observed:  
 Greyed-red: 179A and 181C.  
*Leaf stipule*.—Not present.

Flowers:

*Blooming period*.—Early. 5  
*Blooming dates*.—First Bloom: Feb. 15, 2014. Full Bloom: Mar. 6, 2014.  
*Number of flowers per cluster*.—2 to 4. Average: About 3.  
*Corolla*.—Composed of unfused petals, somewhat overlapping. 10  
*Corolla diameter*.—About 3.7 cm.  
*Petal number*.—5.  
*Petal length*.—About 1.5 cm.  
*Petal width*.—About 1.4 cm. 15  
*Margin waviness*.—Medium.  
*Division of upper margin*.—Notched.  
*Color of petal upper surface*.—White: 155C.  
*Color of petal lower surface*.—White: 155C.  
*Peduncle*.—Length: About 2.1 cm. Width: About 1.4 mm. 20  
*Peduncle color*.—Yellow-green: 144A.  
*Number of sepals*.—5.  
*Sepal length*.—About 0.6 cm.  
*Sepal width*.—About 0.5 cm. 25  
*Sepal shape*.—Triangular.  
*Sepal color*.—Upper surface: Yellow-green: 144A. Lower surface: Yellow-green: 144A.  
*Filament*.—Length: About 0.4 to 1.7 cm. Width: About 0.4 mm. 30  
*Filament color*.—White: N155A.  
*Anther color*.—Greyed-yellow: 162A.  
*Pollen color*.—Greyed-orange: 163A.  
*Pollen production*.—High.  
*Self-compatibility of flowers*.—Self-incompatible. 35  
*Pollen compatibility group*.—S3S6.

Fruit:

General:

*Ripening period*.—Early: Approximately: Apr. 23, 2014. 40  
*Use*.—Fresh market.  
*Keeping quality*.—Average: similar to ‘Brooks’ variety.  
 % *Titratable acidity*.—About 0.99%.  
*Refractometer test*.—Soluble solids; Brix — About 20.4. 45  
*Firmtech II (g/mm<sup>2</sup>)*.—About 261.  
*Juice color*.—Greyed-purple: 187C.  
*Juice amount*.—Intermediate.  
*Eating quality*.—Excellent good sugar/acid balance and firm texture. 50

Stem:

*Stem*.—Length: About 3.9 cm. Width: About 0.2 cm.  
*Stem color*.—Yellow-green: 144A.  
*Stem cavity*.—Medium deep.  
*Stem retention during storage*.—Very good.  
*Stem storage quality*.—Moderate to good.

Berry:

*Uniformity of size*.—Uniform.  
*Shape*.—Reniform.  
*Fruit weight*.—About 6.9 gm.  
*Apical diameter*.—About 2.2 cm.  
*Diameter transversely across suture*.—About 2.4 cm.  
*Diameter at right angle to suture plane*.—About 2.0 cm.  
*Suture*.—None. 15  
*Percent of excessively deep or split sutures*.—About 0%.  
*Doubles*.—0%.

Skin:

*Texture*.—Somewhat rough.  
*Skin color*.—The following colors were observed:  
 Greyed-purple: 187A and B.  
*Tendency to tip crack*.—Not susceptible.  
*Tendency to stem cavity crack*.—Not susceptible. 25

Flesh:

*Texture*.—Very firm.  
*Color*.—The following colors were observed: Greyed-purple: 187B and 187C.

Stone:

*Shape*.—Oblong. 30  
*Stone dimensions*.—Length: About 1.1 cm. Width: About 0.7 cm.  
*Type*.—Freestone.  
*Surface texture*.—Smooth.  
*Stone color when dry*.—Orange-white: 159A.  
*Tendency to split*.—None.  
*Base*.—Rounded.  
*Apex*.—Rounded.  
*Ventral edge*.—Narrow suture protruding somewhat beyond the horizontal plane of the base of the stone, subtended by 2 prominent ridges converging at the base and the apex of the stone.  
*Dorsal edge*.—Small, narrow ridge extending from the base to the apex of the stone. 35

What is claimed:

1. A new and distinct variety of sweet cherry tree as herein illustrated and described.

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