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**Cain**

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- (54) **GRAPEVINE CV. 'SUGRASEVENTEEN'**
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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 1 day.
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- (56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
PP8,297 P 7/1993 Olmo ..... Plt./47.1  
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(57) **ABSTRACT**  
A new and distinct grapevine variety characterized by firm,  
medium-sized red berries that ripen very late and are able to  
tolerate rainfall or adverse weather conditions better than  
other available late red seedless varieties.

**1 Drawing Sheet**

**1**

**BACKGROUND AND SUMMARY OF THE  
INVENTION**

This invention relates to the discovery and asexual propa-  
gation of a new variety of grapevine, *Vitis vinifera* cv.  
'Sugraseventeen'. The new variety was first hybridized by  
David W. Cain in Wasco, Kern County, Calif., the variety  
being originated by controlled hybridization and subsequent  
ovule culture of normally abortive seeds. The new variety is  
characterized by producing medium firm red seedless berries  
of medium size which ripen very late. The new variety  
tolerates rain and adverse weather conditions better than  
other available late red seedless varieties.

The seed parent is the (unpatented) 'Emperor' variety and  
the pollen parent is the (unpatented) 'Ruby Seedless' variety.  
The parent varieties were first crossed in May, 1987, with the  
date of first flowering being May, 1990. The new 'Sugrasev-  
enteen' variety was first asexually propagated by David W.  
Cain in December, 1990 in Wasco, Kern County, Calif.,  
using dormant cuttings.

The new grapevine variety cv. 'Sugraseventeen'  
resembles its seed parent the 'Emperor' variety, in that it  
produces late ripening red berries which tolerate rain and  
adverse weather. It differs from the 'Emperor' variety in that  
the berries contain abortive seed remnants which are tiny  
and softer than seeds of the 'Emperor' variety. It differs from  
the pollen parent, the 'Ruby Seedless' variety by producing  
more rounded berries that ripen later.

'Sugraseventeen' is distinguished from other commonly  
grown red seedless grapes such as the 'Crimson Seedless'  
variety (nonpatented) and the '3-14-71' variety (U.S. Plant  
Pat. No. 8,297). 'Sugraseventeen' is distinguished from the  
Crimson Seedless variety by producing more rounded, softer  
berries in larger clusters which are more rain tolerant.

'Sugraseventeen' differs from the '3-14-71' variety by  
producing rounder, softer berries. 'Sugraseventeen' clusters  
are also larger, averaging 728 grams as compared to 446  
grams in the '3-14-17' variety. Additionally, the young  
shoots of 'Sugraseventeen' are more pubescent than the  
young shoots of the '3-14-17' variety.

The new 'Sugraseventeen' variety has been shown to  
maintain its distinguishing characteristics through succes-  
sive asexual propagations by, for example, cuttings.

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**BRIEF DESCRIPTION OF THE FIGURE**

The accompanying drawing in FIG. 1 illustrates in full  
color a typical cluster of berries, a young shoot, and a mature  
leaf blade of the new grapevine.

**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 begin-  
ning with a capital letter designate values based upon The  
R.H.S. Colour Chart, published by The Royal Horticultural  
Society, London, England.

Many of the description values in this specification are  
based on and conform to those set forth by the International  
Board for Plant Genetic Resources Institute Grape Descrip-  
tors (*Vitis* spp.) of 1983 and/or 1997 which was developed  
in collaboration with the Office International de la Vigne et  
du Vin (OIV) and the International Union for the Protection  
of New Varieties of Plants (UPOV).

The descriptive matter which follows pertains to 'Sug-  
raseventeen' plants grown in the vicinity of Wasco, Kern  
County, Calif., during 1999-2000, and is believed to apply  
to plants of the variety grown under similar conditions of  
soil and climate elsewhere:

**VINE**

**General:**

- Size*.—Very large.
- Vigor*.—Very vigorous.
- Density of foliage*.—Dense.
- Productivity*.—Medium productive.
- Root stock*.—Own.

**Trunk:**

- Shape*.—Very stocky.
- Straps*.—Very long and wide.
- Surface texture*.—Medium-shaggy.
- Inner bark color*.—About 177A.

**SHOOTS**

**Young shoot:**

- Form of tip*.—Half-open.
- Distribution of anthocyanin coloration of tip*.—Piping  
(striped).

*Intensity of anthocyanin coloration of tip.*—Strong.  
*Density of prostrate hairs on tip.*—Very dense.  
*Density of erect hairs on tip.*—Absent.

## Flowering shoot:

*Vigor during flowering.*—Very strong.  
*Attitude during flowering on shoots which are not tied.*—Drooping.  
*Color of dorsal side of internodes.*—About Red 183A.  
*Color of ventral side of internodes.*—About Green 144A with red stripes.  
*Color of dorsal side of nodes.*—About Green 144A with red stripes.  
*Color of ventral side of nodes.*—About Red 183A.  
*Density of erect hairs on nodes.*—None.  
*Erect hairs on internode.*—Absent.  
*Density of prostrate hairs on nodes.*—Very sparse.  
*Density of prostrate hairs on internodes.*—Medium.  
*Anthocyanin coloration of buds.*—Absent or very weak.

## Tendrils:

*Distribution on the shoot at full flowering.*—Discontinuous.  
*Thickness.*—Medium.  
*Color.*—About Yellow-Green 144B.  
*Form.*—Trifurcated.  
*Number of consecutive tendrils.*—Three or more.  
*Length of tendril.*—Very long, about 42.6 cm.

## LEAVES

## Young leaves:

*Color of upper surface of first 4 distal unfolded leaves.*—Reddish, about 183B Greyed-Purple group.  
*Average intensity of anthocyanin coloration of six distal leaves prior to flowering.*—Strong.  
*Density of prostrate hairs between veins at lower surface of 4th distal unfolded leaf.*—Very dense.  
*Density of erect hairs between veins at lower surface of 4th distal unfolded leaf.*—Absent.  
*Density of prostrate hairs on veins at lower surface of 4th distal unfolded leaf.*—Very dense.  
*Density of erect hairs on veins at lower surface of 4th distal unfolded leaf.*—Absent.

## Mature leaves:

*Average length.*—About 20.0 cm.  
*Average width.*—About 23.2 cm.  
*Size of blade.*—Very large.  
*Shape of blade.*—Pentagonal.  
*Number of lobes.*—7.  
*Anthocyanin coloration of main veins on the upper side of the blade.*—Strong.  
*Mature leaf profile.*—Involute.  
*Blistering surface of blade upper surface.*—Very strong.  
*Leaf blade tip.*—In the plane of the leaf.  
*Undulation of margin.*—Pronounced.  
*Apex.*—Cuspidate.  
*Thickness.*—Thick.  
*Undulation of blade between main and lateral veins.*—Overall.  
*Shape of teeth.*—Both sides convex.  
*Length of teeth.*—Short.  
*Ratio length/width of teeth.*—Small.  
*General shape of petiole sinus.*—Slightly open.  
*Tooth at petiole sinus.*—Absent.  
*Petiole sinus limited by veins.*—Absent.

*Shape of upper lateral sinus.*—Lobes strongly overlapping.

*Depth of upper lateral sinus.*—Very deep.

*Density of prostrate hairs between veins on lower surface of blade.*—Very dense.

*Density of erect hairs between veins on lower surface of blade.*—Very dense.

*Density of prostrate hairs on main veins on lower surface of blade.*—Very dense.

*Density of erect hairs on main veins on lower surface of blade.*—Very dense.

*Density of prostrate hairs on main veins on upper surface of blade.*—Present.

*Autumn coloration of leaves.*—Yellow.

## Upper surface:

*Color.*—About 137A.

*Surface texture.*—Rugose.

*Surface appearance.*—Semi-glossy.

*Goffering of blade.*—Present.

## Lower surface:

*Color.*—About 148B.

*Anthocyanin coloration of main veins on lower leaf surface.*—Medium.

*Glossiness.*—Weak.

*Pubescence.*—Pubescent.

*Surface texture.*—Rugose.

*Surface appearance.*—Dull.

## Petiole:

*Length of petiole.*—Medium, about 13.7 cm.

*Length of petiole compared to middle vein.*—Much shorter.

*Density of prostrate hairs on petiole.*—Sparse.

*Density of erect hairs on petiole.*—Medium.

*Shape of base of petiole sinus.*—V-shaped.

## Woody shoot:

*Shape.*—Stocky.

*Internode length.*—Medium, about 127.7 mm.

*Width at node.*—About 20.8 mm.

*Cross section.*—Circular.

*Surface.*—Smooth.

*Main color.*—About reddish brown, 173B Greyed-Orange group.

*Lenticles.*—Absent.

*Density of erect hairs on nodes.*—None.

*Density of erect hairs on internodes.*—None.

*Growth of axillary shoots.*—Few but strong.

## Buds:

*Shape.*—Slightly pointed.

*Size.*—Medium.

*Position.*—Markedly held out.

*Cane but fruitfulness.*—Medium and distal fruitful.

*Time of bud burst.*—Very late, approximately Mar. 23, 2000.

## FLOWERS

## General:

*Flower sex.*—Pistilate with upright stamens.

*Length of first inflorescence.*—Long, about 26.6 cm.

*Position of first flowering node.*—4<sup>th</sup>.

*Number of inflorescences per shoot.*—Up to 1.

*Date of full bloom.*—May 7, 2000.

*Time of bloom.*—Very late.

*Size (diameter of fully open flower).*—Large.

## FRUIT

## General:

*Ripening period.*—Late; about 60 days after Thompson Seedless variety.

*Use*.—Fresh market.

*Keeping quality*.—Good.

*Resistance*.—Insects: medium (typical of *Vitis vinifera*).

Diseases: medium (typical of *Vitis vinifera*).

*Shipping quality*.—Good.

*Date of first harvest*.—Oct. 1, 2000.

*Solids-sugar*.—Medium.

*Refractometer test*.—About 18.0° brix.

*Acid*.—Low, about 0.35 g/L tartaric acid.

*Juice pH*.—3.92.

Cluster:

*Bunch size (peduncle excluded)*.—Large.

*Bunch length (peduncle excluded)*.—Long, about 25.7 cm.

*Bunch width*.—About 17.2 cm.

*Bunch weight*.—High, averaging about 972 g.

*Bunch density*.—Medium.

*Number of berries*.—About 350.

*Form*.—Conical.

Peduncle:

*Length of peduncle*.—Medium, about 5.5 cm.

*Lignification of peduncle*.—Strong.

*Color*.—About 145A.

Berry:

*Size*.—Medium.

*Uniformity of size*.—Uniform.

*Berry weight*.—Low to medium, about 3.0 g.

*Shape*.—Round to obtuse ovate.

*Presence of seeds*.—Rudimentary, about 10.5 mg/seed fresh weight.

*Cross section*.—Circular.

*Dimensions*.—Longitudinal axis about 16.9 mm; horizontal axis about 17.4 mm.

*Skin color (without bloom)*.—About Dark Red to Violet, 183C.

*Coloration of flesh*.—None.

*Juiciness of flesh*.—Slightly juicy.

*Berry firmness*.—Medium.

*Particular flavor*.—None.

*Bloom (cuticular wax)*.—Medium.

*Pedicle length*.—Intermediate, about 6.86 mm.

*Berry separation from pedicel*.—Difficult.

*Visibility of hilum*.—Unclear.

Skin:

*Thickness*.—Thick.

*Texture*.—Tough.

*Reticulation*.—Absent.

*Roughness*.—Absent.

*Tenacity*.—Tenacious to flesh.

*Tendency to crack*.—None.

What is claimed is:

1. A new and distinct variety of grapevine cv. 'Sugrasev-enteen' as herein illustrated and described.

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FIG. 1