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

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(54) **GRAPEVINE PLANT NAMED**
'SUGRATHIRTYFIVE'

(58) **Field of Classification Search** Plt./207
See application file for complete search history.

(50) Latin Name: *Vitis vinifera*
Varietal Denomination: **Sugrathirtyfive**

(56) **References Cited**

U.S. PATENT DOCUMENTS

(75) Inventor: **Michael J. Striem**, Bakersfield, CA
(US)

PP3,106 P 4/1972 Garabedian
PP11,820 P2 3/2001 Cain
PP19,065 P3 8/2008 Cain et al.

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

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A new and distinct grapevine plant variety characterized by
producing late ripening, naturally large, firm, round berries
with creamy berry skin. The berries have high sugar content,
a crunchy bite, and a mild, sweet Muscat flavor.

(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./207**

1 Drawing Sheet

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Latin name of the genus and species claimed: *Vitis vinifera*.
Variety denomination: 'Sugrathirtyfive'.

**BACKGROUND AND SUMMARY OF THE
INVENTION**

This invention relates to the discovery and asexual propa-
gation of a new and distinct variety of grapevine as herein
described and illustrated. The new variety was first hybrid-
ized by Michael Striem in Wasco, Kern County, Calif., the
variety being originated by controlled hybridization and sub-
sequent culture of seed traces and embryo rescue procedures.

5 berry skin finish. Additionally, similar to its pollen parent,
'Sugrathirtyfive' has a good attachment of the berries. Unlike
its pollen parent, the skin of the fruit is thinner. 'Sugrathirty-
five' has a more uniform and rounder berry shape than its
pollen parent with a mild muscat flavor. The new variety also
10 differs from its pollen parent 'Sugrathirtyone' in that the
berries of the pollen parent are much smaller (3.6 gr.) whereas
those of the new variety 'Sugrathirtyfive' are larger (6.8 gr.).
Additionally, 'Sugrathirtyfive' ripens approximately two
15 weeks before the pollen parent.

The new variety 'Sugrathirtyfive' is characterized by pro-
ducing late ripening, naturally large, firm, round berries with
creamy berry skin. The berries of 'Sugrathirtyfive' have high
sugar content, a crunchy bite, and a mild, sweet Muscat flavor.
A cluster of 'Sugrathirtyfive' fruit has good attachment, but is
not as compact as those of other comparable varieties.

The new variety 'Sugrathirtyfive' ripens late in the season,
about seven weeks after 'Sugraone' (U.S. Plant Pat. No.
3,106) and about a month after 'Thompson Seedless' (unpat-
ented).

The seed parent is the varietal selection '97148-027-365'
(unpatented) and the pollen parent is the varietal selection
'99080-126-251' (U.S. Plant Pat. No. 19,065), otherwise
known as 'Sugrathirtyone'. The parent varieties were first
crossed in May 2004, by Michael Striem. From the initial
population of hybrid ovules, embryo rescue methods were
used to produce a population from which the present variety
was selected. The date of first sowing was July 2004, and the
date of first flowering was May 2006.

20 The new variety 'Sugrathirtyfive' resembles the compa-
rable variety U.S. Plant Pat. No. 11,820, otherwise known as
'Sugraeighteen', in its sweet muscat flavor. However,
'Sugrathirtyfive' develops a firmer berry with a more crunchy
bite than 'Sugraeighteen'. The berries of 'Sugrathirtyfive' are
25 naturally larger (6.8 gr. vs. 3.7 gr.) and ripen two weeks later.
A cluster of 'Sugrathirtyfive' is not as compact as those of
'Sugraeighteen'.

The new variety 'Sugrathirtyfive' was first asexually
propagated in December 2006, in Wasco, Kern County,
Calif., by Michael Striem using hardwood cuttings. The new
variety 'Sugrathirtyfive' resembles its seed parent '97148-
027-365' (unpatented) in many characteristics, such as the
same creamy color type with the same type of cluster struc-
ture, but differs from its seed parent in that it has larger, more
uniform, and rounder berries. Additionally, 'Sugrathirtyfive'
is more productive and less vigorous than its seed parent and
ripens about a week later with a higher sugar content of about
19 Brix.

30 The new variety 'Sugrathirtyfive' differs from the compa-
rable variety 'Thompson Seedless' (unpatented) in that
'Sugrathirtyfive' is more productive, has a larger natural berry
size (6.8 gr. vs. 2.5 gr. of the natural performance) and ripens
about a month later. In addition, the berries of 'Sugrathirty-
five' are firmer and have better attachment to the cluster's
stem.

35 The new 'Sugrathirtyfive' variety has been shown to main-
tain its distinguishing characteristics through successive
asexual propagations by, for example, cuttings.

Variations of the usual magnitude from the described above may occur with changes in growing conditions, irrigation, fertilization, pruning, management and climatic variations.

BRIEF DESCRIPTION OF THE DRAWINGS

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. The colors are as nearly true as is reasonably possible in a color representation of this type.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

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 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 Descriptors (*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 'Sugrathirtyfive' plants grown in the vicinity of Wasco, Kern County, Calif., during 2007 and 2008, and is believed to apply to plants of the variety grown under similar conditions of soil and climate elsewhere.

VINE

General:

Planting.—Trained to a modified gable trellis, planted in a 7 ft.×12 ft. spacing.

Practices.—Gene-pool-vine: Cane pruned to approximately 6 canes per vine, 3 spurs per vine. Test-vines: Cane pruned to approximately 12 to approximately 18 two-bud-spurs per vine, and tested also as cane pruned to approximately 6 canes per vine, 6–8 buds per cane.

Size.—Medium. Height: Approximately 2.0 m. Width: Approximately 2.2 m.

Vigor.—Medium.

Fresh pruning weight.—Approximately 1.9 kg per vine. *Density of foliage.*—Medium.

Productivity.—Productive — approximately 20 clusters per vine.

Yield.—Approximately 12.240 kg per vine, thinned to approximately 20 clusters per vine.

Crop load.—Approximately 6.4 kg per vine (kg fruit per kg fresh-pruning-weight).

Rootstock.—Not applicable.

Own root.—Yes.

Resistance.—Neither resistance nor susceptibility to diseases or pests has been observed in this variety.

Trunk:

Shape.—Medium.

Diameter.—Approximately 42 mm.

Straps.—Short.

Surface texture.—Shaggy.

Inner bark color.—Near Dark Grey Orange 165A.

Outer bark color.—Near Grey 201A.

SHOOTS

Young shoot:

Form of tip.—Wide open.

Distribution of anthocyanin coloration of tip.—Absent.

Intensity of anthocyanin coloration of tip.—Absent.

Density of prostrate hairs on tip.—Absent.

Density of erect hairs on tip.—Absent.

Woody shoot (mature canes):

Shape.—Slender.

Internode length.—Approximately 63.3 mm.

Width at node.—Approximately 8.2 mm.

Cross section.—Circular.

Surface.—Smooth.

Main color.—Light Brown 166A+165B.

Lenticels.—Absent.

Density of erect hairs on nodes.—Absent or Very Sparse.

Density of erect hairs on internodes.—Absent or Very Sparse.

Growth of auxiliary shoots.—Medium.

Flowering shoot:

Vigor during flowering.—Weak.

Attitude during flowering on shoots which are not tied.—Semi-erect.

Color of dorsal side of internodes.—Near Medium Yellow Green 144A.

Color of ventral side of internodes.—Near Medium Yellow Green 144B.

Color of dorsal side of nodes.—Near Medium Yellow Green 144B.

Color of ventral side of nodes.—Near Medium Yellow Green 144B.

Density of erect hairs on nodes.—Absent.

Erect hairs on internode.—Absent.

Density of prostrate hairs on nodes.—Absent.

Density of prostrate hairs on internodes.—Absent.

Anthocyanin coloration of buds.—Weak.

Tendrils:

Distribution on the shoot at full flowering.—Discontinuous.

Thickness.—Thin.

Color.—Near Light Yellow Green 145A.

Form.—Bifurcated.

Number of consecutive tendrils.—Up to 2.

Length of tendril.—Short, approximately 16.5 cm.

LEAVES

Young leaves:

Color of upper surface of first 4 distal unfolded leaves.—Copper.

Average intensity of anthocyanin coloration of six distal leaves prior to flowering.—Absent.

Density of prostrate hairs between veins at lower surface of 4th distal unfolded leaf.—Absent.

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.—Absent.

Density of erect hairs on veins at lower surface of 4th distal unfolded leaf.—Absent.

Mature leaves:

Average length.—Approximately 120.6 mm.

Average width.—Approximately 147.0 mm.

Size of blade.—Medium.

Shape of blade.—Pentagonal.

Number of lobes.—5.

Anthocyanin coloration of main veins on the upper side of the blade.—Absent.

Mature leaf profile.—Flat.

Blistering surface of blade upper surface.—Very Weak.

Leaf blade tip.—In the plane of the leaf.

Undulation of margin.—Slight.

Thickness.—Medium.

Undulation of blade between main and lateral veins.—Absent.

Shape of teeth.—Convex on both sides.

Length of teeth.—Medium.

Ratio length/width of teeth.—Medium.

General shape of petiole sinus.—Wide open.

Tooth at petiole sinus.—Absent.

Petiole sinus limited by veins.—Absent.

Shape of upper lateral sinus.—Open.

Depth of upper lateral sinus.—Very Shallow.

Density of prostrate hairs between veins on lower surface of blade.—Absent.

Density of erect hairs between veins on lower surface of blade.—Absent.

Density of prostrate hairs on main veins on lower surface of blade.—Absent.

Density of erect hairs on main veins on lower surface of blade.—Absent.

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

Autumn coloration of leaves.—Yellow, 162C.

Upper surface:

Color.—Near Dark Yellow Green 147A.

Surface texture.—Smooth.

Surface appearance.—Dull.

Glossiness.—Weak.

Pubescence.—Absent.

Lower surface:

Color.—Medium Yellow Green 146B.

Anthocyanin coloration of main veins on lower leaf surface.—Absent.

Glossiness.—Weak.

Pubescence.—Absent.

Surface texture.—Smooth.

Surface appearance.—Dull.

Petiole:

Length of petiole.—Medium, approximately 7.7 cm.

Length of petiole compared to middle vein.—Slightly shorter.

Diameter.—Approximately 3 mm.

Density of prostrate hairs on petiole.—Absent.

Density of erect hairs on petiole.—Absent.

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

Color.—Striped Yellow Green 144B+Red 183C.

Buds:

Shape.—Pointed.

Size.—Medium, approximately 5 mm×5mm.

Position.—Markedly held out.

Cane bud fruitfulness.—Basal most fruitful.

Time of bud burst.—Medium.

FLOWERS

General:

Flower sex.—Hermaphrodite.

Length of first inflorescence.—Medium, approximately 23.6 cm.

Position of first flowering node.—Third node.

Number of inflorescences per shoot.—1.1 to 2.

Date of full bloom.—May 5th.

Time of bloom.—Medium.

Size (diameter of fully open flower).—Medium, approximately 5 mm.

FRUIT

General:

Ripening period.—Late, August 25.

Use.—Table grapes.

Keeping quality.—Good.

Shipping quality.—Good.

Date of first harvest.—Aug. 25, 2006.

Solids-sugar.—Medium.

Refractometer test.—Approximately 19.3%.

Acid.—Medium, approximately 3 gr./L tartaric acid.

Juice pH.—Approximately 4.0.

Cluster:

Bunch size (peduncle excluded).—Medium.

Bunch length (peduncle excluded).—Medium, approximately 24.3 cm.

Bunch width.—Approximately 13.0 cm.

Bunch weight.—Medium, approximately 442.6 g.

Bunch density.—Medium.

Number of berries.—Approximately 61.6.

Form.—Conical.

Peduncle:

Length of peduncle.—Medium, approximately 13.2 mm.

Lignification of peduncle.—Medium.

Color.—Near Medium Yellow Green 144A.

Berry:

Size.—Large.

Uniformity of size.—Uniform.

Berry weight.—Heavy, approximately 6.8 gr.

Shape.—Broad to Short Elliptic.

Presence of seeds.—Rudimentary.

Cross section.—Circular.

Dimensions.—Longitudinal axis: Approximately 23.3 mm. Horizontal axis: Approximately 28.2 mm.

Skin color (without bloom).—Yellow-green 151A+153C.

Juiciness of flesh.—Slightly juicy.

Berry firmness.—Very Firm.

Particular flavor.—Muscat.

Bloom (cuticular wax).—Weak.

Pedice length.—Medium, approximately 8.5 mm.

Berry separation from pedicel.—Medium.

Visibility of hilum.—Slightly.

Skin:

Thickness.—Medium.

Texture.—Smooth.

Reticulation.—Absent.

Roughness.—Absent.

Tenacity.—Tenacious to flesh.

Seed:

Number of seeds per berry.—Approximately 2.3.

Size.—Small.

Color.—Light Brown.

Texture.—Medium.

Endosperm.—Absent.

Fresh weight of seed-traces/berry.—Approximately 14.5 mg.

Room-dry weight of seed-traces/berry.—Approximately 10.3 mg.

What is claimed is:

5 1. A new and distinct variety of grapevine plant as herein illustrated and described.

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Fig. 1