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(12) **United States Plant Patent**
Caster et al.

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(54) **BLUEBERRY PLANT NAMED**
‘DRISBLUEFOUR’

(50) Latin Name: *Vaccinium corymbosum* L.
Varietal Denomination: **DrisBlueFour**

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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 60 days.

(21) Appl. No.: **13/573,345**

(22) Filed: **Sep. 11, 2012**

(65) **Prior Publication Data**

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(51) **Int. Cl.**
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A01H 4/00 (2006.01)
A01H 5/08 (2006.01)

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CPC .. *A01H 5/00* (2013.01); *A01H 4/00* (2013.01);
A01H 5/08 (2013.01)
USPC **Plt./157**

(58) **Field of Classification Search**
CPC *A01H 5/08*; *A01H 5/00*; *A01H 4/00*
USPC **Plt./157**
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct variety of blueberry plant named ‘Dris-
BlueFour’ particularly distinguished by having a very low
chilling requirement, high productivity and firm, sweet ber-
ries with intense blue color and aromatic flavor, is disclosed.

2 Drawing Sheets

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Genus and species: *Vaccinium corymbosum* L.
Variety denomination: ‘DrisBlueFour’.

BACKGROUND OF THE NEW PLANT

The invention relates to a new and distinct blueberry vari-
ety designated ‘DrisBlueFour’ and botanically known as *Vac-*
cinium corymbosum L. This new blueberry variety was dis-
covered in Santa Cruz, Calif. in June 2000 and originated
from a cross between the proprietary female parent blueberry
plant ‘FL 97-26’ (unpatented) and the male parent blueberry
plant ‘MS139’ (unpatented). The original seedling of the new
variety was first asexually propagated at a nursery in
Monterey, Calif. ‘DrisBlueFour’ was subsequently asexually
propagated and underwent further testing at a nursery in Santa
Cruz, Calif. for twelve years. The present invention has been
found to be stable and reproduce true to type through succes-
sive asexual propagations via softwood cuttings.

Plant Breeder’s Rights for this variety have not been
applied for. ‘DrisBlueFour’ has not been made publicly avail-
able or sold more than one year prior to the filing date of this
application.

SUMMARY OF THE INVENTION

The following are the most outstanding and distinguishing
characteristics of this new cultivar when grown under normal
horticultural practices in Santa Cruz, Calif.

1. A very low chilling requirement;
2. High productivity; and
3. Firm, sweet berries with intense blue color and aromatic
flavor.

DESCRIPTION OF THE PHOTOGRAPHS

This new blueberry plant is illustrated by the accompany-
ing photographs which show fruit of the plant as well as the

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flowers and leaves. The colors shown are as true as can be
reasonably obtained by conventional photographic proce-
dures. The photographs are of plants that are 12 years old.

FIG. 1 shows a close-up of the mature flowers.

FIG. 2 shows a close-up of the leaves.

FIG. 3 shows a close-up of the whole fruit and a cross-
section of the fruit.

DESCRIPTION OF THE NEW CULTIVAR

The following detailed description sets forth the distinctive
characteristics of ‘DrisBlueFour.’ The data which define these
characteristics is based on observations taken in Santa Cruz,
Calif. from 2000-2012. This description is in accordance with
UPOV terminology. Color designations, color descriptions,
and other phenotypical descriptions may deviate from the
stated values and descriptions depending upon variation in
environmental, seasonal, climatic and cultural conditions.
‘DrisBlueFour’ has not been observed under all possible envi-
ronmental conditions. The botanical description of ‘Dris-
BlueFour’ was taken from 12 year-old plants. Color refer-
ences are primarily to The R.H.S. Colour Chart of The Royal
Horticultural Society of London (R.H.S.) (2007 edition).
Descriptive terminology follows the *Plant Identification Ter-*
minology, An Illustrated Glossary, 2nd edition by James G.
Harris and Melinda Woolf Harris, unless where otherwise
defined.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Ericaceae.

Botanical.—*Vaccinium corymbosum* L.

Common name.—Blueberry.

Variety name.—‘DrisBlueFour’.

Parentage:

Female parent.—The proprietary blueberry plant ‘FL 97-26’ (unpatented).

Male parent.—The blueberry plant ‘MS139’ (unpatented).

Plant:

Size.—Medium.

Height.—109.4 cm.

Width.—129.9 cm.

Length/width ratio.—0.8.

Plant vigor.—Medium to strong.

Growth habit.—Semi-erect.

Productivity.—High.

Cold hardiness.—Medium.

Chilling requirement.—Very low; 150-250 chilling hours.

Propagation.—Soft wood cuttings.

Time of vegetative bud burst.—Early to medium.

Fruiting type.—Only on one-year-old shoots.

Cane renewal.—Medium.

Internode length (upper half on one-year old shoot).—30.29 mm.

One-year old canes (young canes).—Length: 74.17 cm. Diameter at the base: 9.67 mm. Diameter at the tip: 4.15 mm. Texture: Smooth. Color (One-year old shoot, branch and canes): RHS 145A (Medium yellow-green).

Five-year old canes (mature canes).—Length: 114.05 cm. Diameter at the base: 18.70 mm. Diameter at the tip: 4.76 mm. Texture: Rough. Color: RHS 197B (Medium greyed-green).

Leaves:

Length.—Medium; 5.12 cm.

Width.—Medium; 3.06 cm.

Length/width ratio.—1.7; longer than broad.

Shape.—Elliptic.

Apex.—Cuspidate.

Base.—Obtuse.

Margin.—Entire.

Glossiness.—Medium.

Pubescence.—Glabrous (Absent).

Sheath.—Absent.

Arrangement.—Alternate.

Venation.—Reticulate.

Color.—Upper surface: Dark; RHS 147A (Dark yellow-green). Lower surface: Medium; RHS 147C (Medium yellow-green).

Appearance of leaf bud.—Medium.

Internode length (one-year old shoot, upper half).—Medium; 11.38 mm.

Petiole:

Length.—4.3 mm.

Diameter.—1.73 mm.

Color.—RHS 144C (Medium yellow-green).

Flowers:

Length (excluding peduncle).—Medium; 8.36 mm.

Diameter.—6.19 mm.

Length/width ratio.—1.4.

Color.—RHS 155D (White).

Flower bud.—Length: 8.3 mm. Width: 3.4 mm. Number of flowers per bud: 7. Color on mature buds: RHS 65C (Light red-purple) and RHS 155B (White).

Petal width.—3.75 mm.

Fragrance.—Faint.

Time of beginning flowering on one-year shoot.—Medium.

Time of flowering (50% full bloom).—Early; March 15.

Pedicel.—Length: 7.27 mm. Diameter: 1.08 mm. Color: RHS 142C (Light green).

Corolla.—Aperture diameter: 2.42 mm. Shape: Urceolate (Urn-shaped). Size of corolla tube: Medium. Corolla tube color: Very weak or absent; RHS N155C (White). Ridges on tube: Present.

Peduncle length.—24.83 mm.

Reproductive organs:

Style length (including stigma).—Medium; 8.23 mm.

Style color.—RHS 144B (Medium yellow-green).

Ovary color.—RHS 189B (Medium greyed-green).

Pollen amount.—Low.

Pollen color.—RHS 4D (Light yellow).

Anther color.—RHS N170B (Medium greyed-orange).

Fruit:

Size.—Medium to large.

Length.—13.93 mm.

Width.—15.10 mm.

Length/width ratio.—0.9.

Fruit pedicel diameter.—1.01 mm.

Weight.—2.5 g.

Number of berries per cluster.—7.

Cluster density.—Medium.

Shape in longitudinal sections.—Oblate.

Intensity of green color (immature fruit with bloom).—Medium; RHS 191B (Medium greyed-green).

Color of skin (immature fruit without bloom).—RHS 145A (Medium yellow-green).

Color of skin (mature fruit without bloom).—RHS N186A (Dark greyed-purple).

Color of skin (mature fruit with bloom).—RHS 98D (Light blue).

Intensity of bloom (mature fruit).—Very strong.

Attitude of sepals.—Incurving and erect.

Calyx.—Diameter of basin: Medium; 5.78 mm. Depth of basin: Medium; 2.97 mm. Diameter/depth ratio: 1.9.

Flesh color.—RHS 145C (Light yellow-green).

Firmness.—Firm.

Sweetness.—Medium.

Acidity.—Low.

Time of beginning of fruit ripening (one-year old shoots).—Early to medium.

Harvest season.—Medium.

Harvest interval.—May 26-July 22.

Seeds:

Length.—1.37 mm.

Width.—0.99 mm.

Length/width ratio.—1.4.

Abundance.—High.

Color.—RHS 165A (Dark orange-brown).

Resistance to pests and diseases: Data not available.

COMPARISON WITH COMMERCIAL VARIETIES

‘DrisBlueFour’ differs from the commercial variety ‘DrisBlueOne’ (U.S. Plant Pat. No. 20,449) in that ‘DrisBlueFour’ has leaves with a cuspidate apex and berries weighing 2.5 g with low acidity, whereas ‘DrisBlueOne’ has leaves with a broadly acute apex and berries weighing 1.7 g with medium

acidity. Additionally, 'DrisBlueFour' has a very low chilling requirement, whereas 'DrisBlueOne' has a medium chilling requirement.

'DrisBlueFour' differs from the commercial variety 'Dris-BlueTwo' (U.S. Plant Pat. No. 20,488), in that 'DrisBlueFour' has leaves with an obtuse base and an entire margin, whereas 'DrisBlueTwo' has leaves with a broadly acute base and a

serrulate margin. Additionally, 'DrisBlueFour' has oblate shaped berries with low acidity, whereas 'DrisBlueTwo' has nearly spherical shaped berries with medium acidity.

We claim:

1. A new and distinct variety of blueberry plant named 'DrisBlueFour' as shown and described herein.

* * * * *

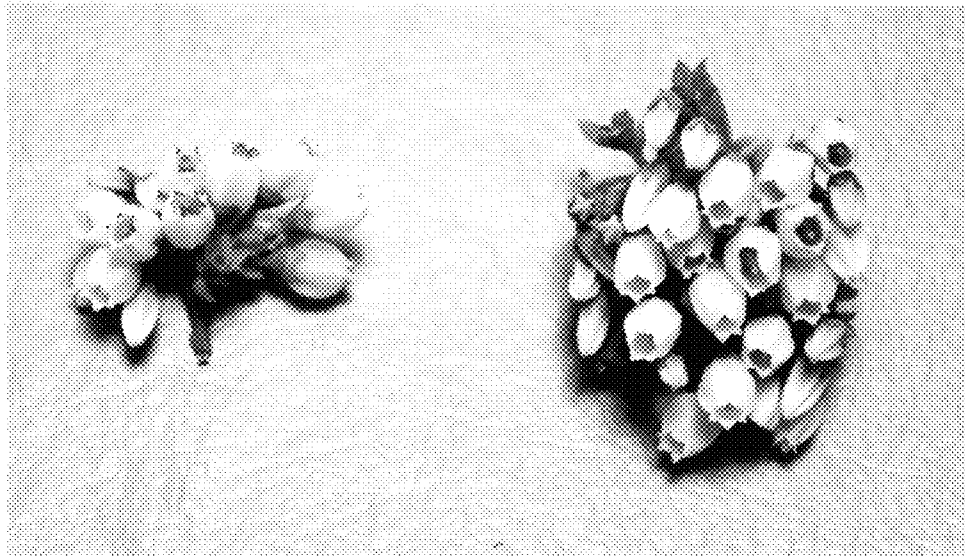


FIG. 1

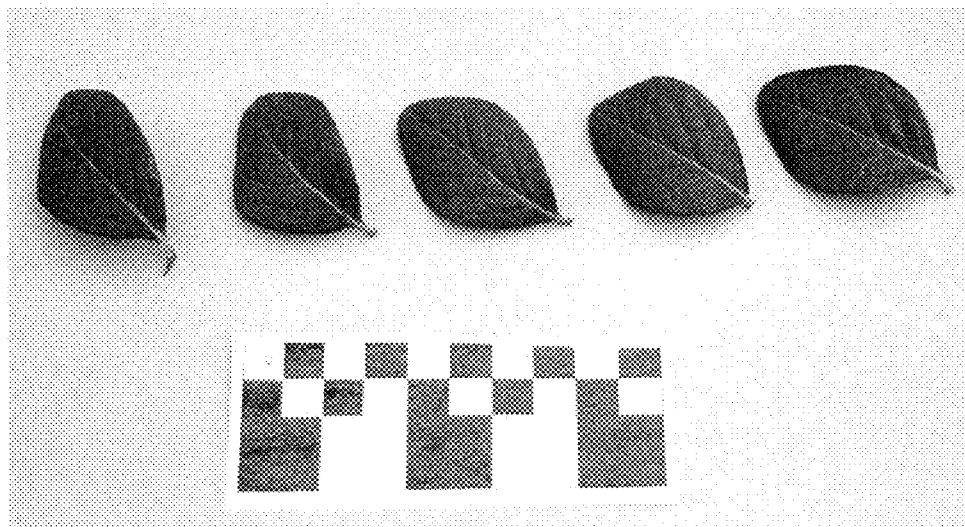


FIG. 2

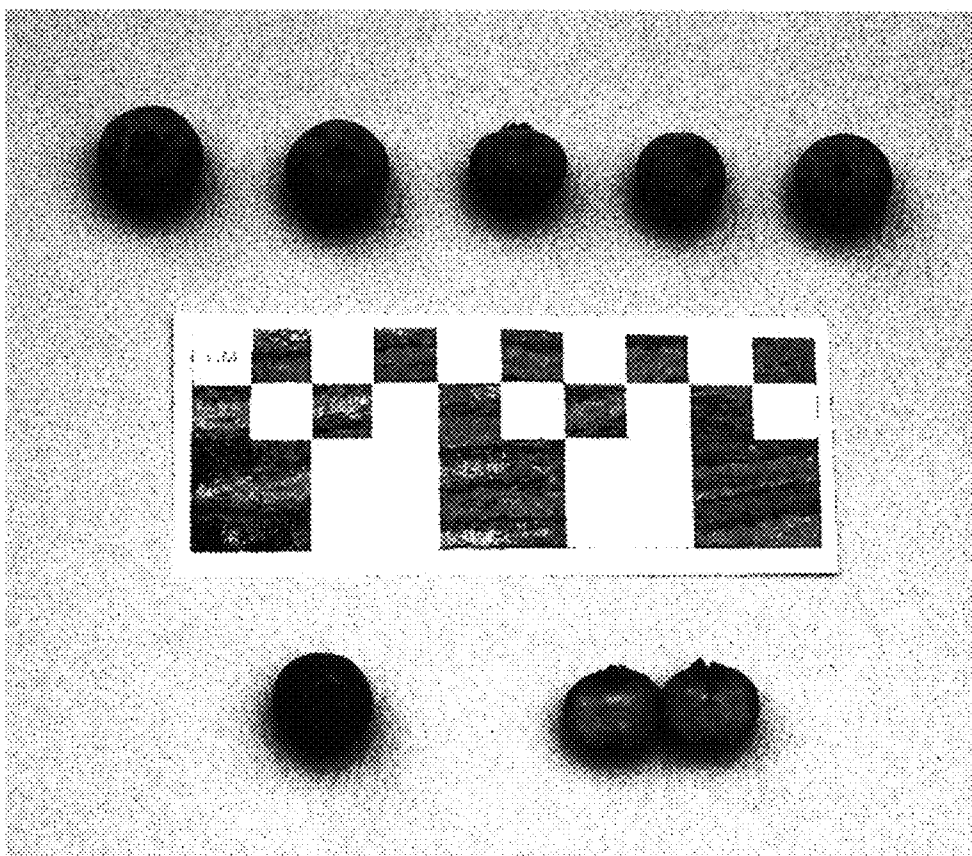


FIG. 3

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : PP24,407 P3
APPLICATION NO. : 13/573345
DATED : April 29, 2014
INVENTOR(S) : Brian K. Caster et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE SPECIFICATION

In column 1, line 9, delete “female” and insert -- male --, therefor.

In column 1, line 10, delete “male” and insert -- female --, therefor.

In column 3, line 2, delete “Female” and insert -- Male --, therefor.

In column 3, line 4, delete “Male” and insert -- Female --, therefor.

Signed and Sealed this
Twenty-ninth Day of November, 2016

A handwritten signature in black ink, reading "Michelle K. Lee". The signature is written in a cursive style with a long, sweeping underline.

Michelle K. Lee
Director of the United States Patent and Trademark Office