US00PP18458P2

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

(10) **Patent No.: US PP18,458 P2**
(45) **Date of Patent: Jan. 22, 2008**

(54) **STRAWBERRY PLANT NAMED 'DRISSTRAWONE'**

(50) Latin Name: ***Fragaria×ananassa***
Varietal Denomination: **DrisStrawOne**

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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 0 days.

(21) Appl. No.: **11/545,352**

(22) Filed: **Oct. 10, 2006**

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

(52) **U.S. Cl.** **Plt./208**
(58) **Field of Classification Search** Plt./208, Plt./209
See application file for complete search history.

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(57) **ABSTRACT**

This invention relates to a new and distinct cultivar of strawberry plant named 'DrisStrawOne'. The new cultivar is primarily characterized by its relatively small plant size, medium fruit size and heavy fruit production.

3 Drawing Sheets

Genus and species: *Fragaria×ananassa.*
Variety denomination: 'DrisStrawOne'.

BACKGROUND OF THE NEW PLANT

The present invention relates to a new and distinct strawberry cultivar designated 'DrisStrawOne' botanically known as *Fragaria×ananassa.* This new strawberry cultivar originated from a controlled cross between 'Driscoll El Capitan' (U.S. Plant Pat. No. 14,005) and 'Driscoll Agoura' (U.S. Plant Pat. No. 15,731). The original seedling of the new cultivar was asexually propagated by stolons at a nursery in Shasta County, Calif. Propagules were transplanted to a controlled breeding plot in Ventura County, Calif. where it was identified and selected for further evaluation in February, 2002. 'DrisStrawOne' was subsequently asexually propagated and underwent further testing at various locations in Ventura County, Calif. for four years. The present invention has been found to retain its distinctive characteristics through successive asexual propagations.

DESCRIPTION OF THE PHOTOGRAPHS

The accompanying color photographs show typical specimens of the new cultivar at various stages of development as nearly true as it is possible to make in color reproductions.

FIG. **1** shows overall plant habit including fruit at various stages of development.

FIG. **2** shows leaves of the plant with three leaflets.

FIG. **3** shows the upperside of the flowers.

FIG. **4** shows the underside of the flowers.

FIG. **5** shows the whole fruit.

FIG. **6** shows the fruit in longitudinal cross-section.

DESCRIPTION OF THE NEW CULTIVAR

The following description of 'DrisStrawOne' is based on observations taken during the 2006 growing season in Ventura County, Calif. 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. 'DrisStrawOne' has not been observed under all possible environmental conditions. Color terminology follows The Royal Horticultural Society Colour Chart, London.

DETAILED BOTANICAL DESCRIPTION

Table 1 shows plant characteristics of the new variety compared with plant characteristics of the parents, 'Driscoll El Capitan' and 'Driscoll Agoura'. Plant characteristics include plant habit, vigor, height in centimeters, diameter in centimeters, the density of an individual plant and the number of crowns per plant.

TABLE 1

Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Habit	Upright	Globose	Flat Globose
Vigor	Strong	Strong	Weak
Height (cm)	9.5	20.2	22.9
Diameter (cm)	15.9	35.8	30.2
Plant Density	Open	Open	Open
No. Crowns/Plant	5	5	6

Table 2 shows leaf characteristics of the new cultivar compared with leaf characteristics of 'Driscoll El Capitan' and 'Driscoll Agoura'. Leaf characteristics include terminal leaflet length and width in centimeters, length to width ratio, number of teeth per terminal leaflet, shape of teeth, color of upperside and underside of leaf, leaf shape in cross section, leaf blistering, leaf glossiness, number of leaflets, shape of leaf margin and shape of leaf base.

TABLE 2

Leaf Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Terminal leaflet length (cm)	7.37	6.45	5.90

TABLE 2-continued

Leaf Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Terminal leaflet width (cm)	6.84	5.89	5.63
Terminal leaflet length/width ratio	1.08	1.10	1.05
No. teeth/terminal leaflet	22	18	22
Shape of teeth	Rounded	Obtuse	Rounded
Color of upperside of leaf	RHS 139A Light green	RHS 147A Dark green	RHS 147A Dark green
Color of underside of leaf	RHS 138A Light green	RHS 147C Medium green	RHS 138B Light green
Leaf shape in cross section	Concave	Slightly concave	Between slightly concave & flat
Leaf blistering	Weak	Medium	Strong
Leaf glossiness	Weak	Between medium & strong	Medium
No. leaflets	More than 3 leaflets on up to 5 out of 10 leaves	Three only	More than 3 leaflets on up to 5 out of 10 leaves
Terminal leaflet margin	Revolute	Flat	Flat
Terminal leaflet base shape	Slightly oblique	Obtuse	Rounded

Table 3 shows information about the petiole, the petiolule, the bract, and the stipule of the new cultivar compared to 'Driscoll El Capitan' and 'Driscoll Agoura'. This includes petiole length in centimeters, petiole diameter in centimeters, petiolule length in centimeters, petiolule diameter in centimeters, bract frequency per petiole, stipule length in centimeters, stipule width in centimeters, stipule pubescence, petiole pubescence, pose of hairs on the petiole, color of the petiole and color of the petiolule.

TABLE 3

Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Petiole length (cm)	12.5	10.8	10.4
Petiole diameter (cm)	0.385	0.330	0.357
Petiole pubescence	Dense	Between medium & dense	Dense
Petiole pose of hairs	Between upwards & outwards	Outwards	Outwards
Petiole color	RHS 144A Medium yellow green	RHS 149A Light yellow green	RHS 149A Light yellow green
Petiolule color	RHS 144B Medium yellow green		
Petiolule length (cm)	0.770	0.518	0.320
Petiolule diameter (cm)	0.264	0.194	0.221
Bract frequency	1	0	0
Stipule length (cm)	4.0	3.9	3.8
Stipule width (cm)	0.965	0.939	1.123
Stipule pubescence	Dense	Sparse	Sparse

Table 4 shows stolon characteristics of the new cultivar compared to 'Driscoll El Capitan' and 'Driscoll Agoura'. These characteristics include the number of stolons, the anthocyanin coloration of the stolons, the thickness of the stolons and the pubescence of the stolons.

TABLE 4

Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Stolon Number	Medium	Many	Medium
Stolon Anthocyanin	Weak	Between Medium & Strong	Between Weak & Medium
Stolon Thickness	Medium	Thin	Between Medium & Thick
Stolon Pubescence	Sparse	Between Sparse & Medium	Dense
Average Number of Daughter Plants (Nursery Average)	9	10	11

Table 5 shows inflorescence characteristics of the new cultivar compared to 'Driscoll El Capitan' and 'Driscoll Agoura'. These characteristics include inflorescence position relative to foliage, relative flower size, flower diameter in centimeters (measured from petal tip to petal tip), relative spacing of petals, petal length in centimeters, petal width in centimeters, petal length to width ratio, petal color, calyx diameter in centimeters (measured on back off lower from sepal tip to sepal tip), diameter of calyx relative to corolla, diameter of inner calyx relative to outer, sepal length in centimeters (measured from sepal tip to point of attachment to receptacle), sepal width in centimeters, receptacle color and anther color.

TABLE 5

Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Inflorescence position relative to foliage	Above	Above	Above
Flower size	Medium	Large	Between medium & large
Flower diameter (cm)	2.682	3.052	2.291
Petal spacing	Overlapping	Overlapping	Overlapping
Petal length (cm)	1.536	1.521	1.368
Petal width (cm)	1.429	1.607	1.274
Petal length/width ratio	1.07	0.95	1.07
Petal color	RHS 155D White	RHS 155C White	RHS 155C White
Calyx diameter (cm)	3.924	4.401	3.953
Calyx diameter relative to corolla	Larger	Larger	Larger
Inner calyx diameter relative to outer	Smaller	Between smaller & same size	Same size
Sepal length (cm)	1.458	1.720	1.538
Sepal width (cm)	1.175	0.748	0.629
Receptacle color	RHS 9A		
Anther color	RHS 14A		

Table 6 shows fruit characteristics of the new cultivar compared to 'Driscoll El Capitan' and 'Driscoll Agoura'.

TABLE 6

Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Fruiting truss length (cm)	24.4	20.9	17.7
Fruiting truss attitude	Semi-erect	Prostrate	Flat
Fruit length (cm)	0.538	0.414	0.463

TABLE 6-continued

Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Fruit width (cm)	0.452	0.351	0.421
Fruit length/width ratio	1.19	1.18	1.10
Fruit weight (g)	29.2	27.9	28.0
Relative fruit size	Medium	Between medium & large	Between medium & large
Predominant fruit shape	Conical	Cordate	Ovoid
Difference in shape between primary & secondary fruits	Moderate	Marked	Marked
Band without achenes	Absent or very narrow	Absent or very narrow	Absent or very narrow
Unevenness of fruit surface	Medium	Between weak & medium	Strong
Fruit skin color	RHS 46B Red	RHS 46A Dark red	RHS 46A Dark red
Evenness of fruit color	Slightly uneven	Between slightly uneven & even	Slightly uneven
Fruit glossiness	Between medium & strong	Strong	Strong
Insertion of achenes	Below surface	Between below surface & level with surface	Level with surface
Achene coloration - sunward side of berry	RHS 180B Medium greyed red	RHS 183B Dark greyed red	RHS 182A Dark greyed red

TABLE 6-continued

Characteristic	'DrisStrawOne'	'Driscoll El Capitan'	'Driscoll Agoura'
Achene coloration - shaded side of berry	RHS 1A Light green yellow	RHS 1B Light yellow	RHS 3B Light yellow
Achenes per berry	202	101.5	385.5
Insertion of calyx	Between in a basin and level	Between in a basin and level	Set above fruit
Pose of calyx segments	Reflexed	Reflexed	Reflexed
Size of calyx in relation to fruit	Larger	Larger	Between smaller & same size
Adherence of calyx	Medium	Strong	Between weak & medium
Firmness of flesh	Medium	Firm	Firm
Color of flesh	RHS 41B & RHS 155A Orange red & white	RHS 40B & RHS 155C Orange red & white	RHS 41A & RHS 155B Orange red & white
Evenness of flesh color	Slightly uneven	Even	Slightly uneven
Hollow center	Medium	Large	Medium
Sweetness	Medium	Strong	Medium
Texture when tasted	Fine	Fine	Medium
Grams of fruit/plant	957.0	509.4	704.7

We claim:

1. A new and distinct cultivar of strawberry plant as described and shown herein.

* * * * *

FIG. 1

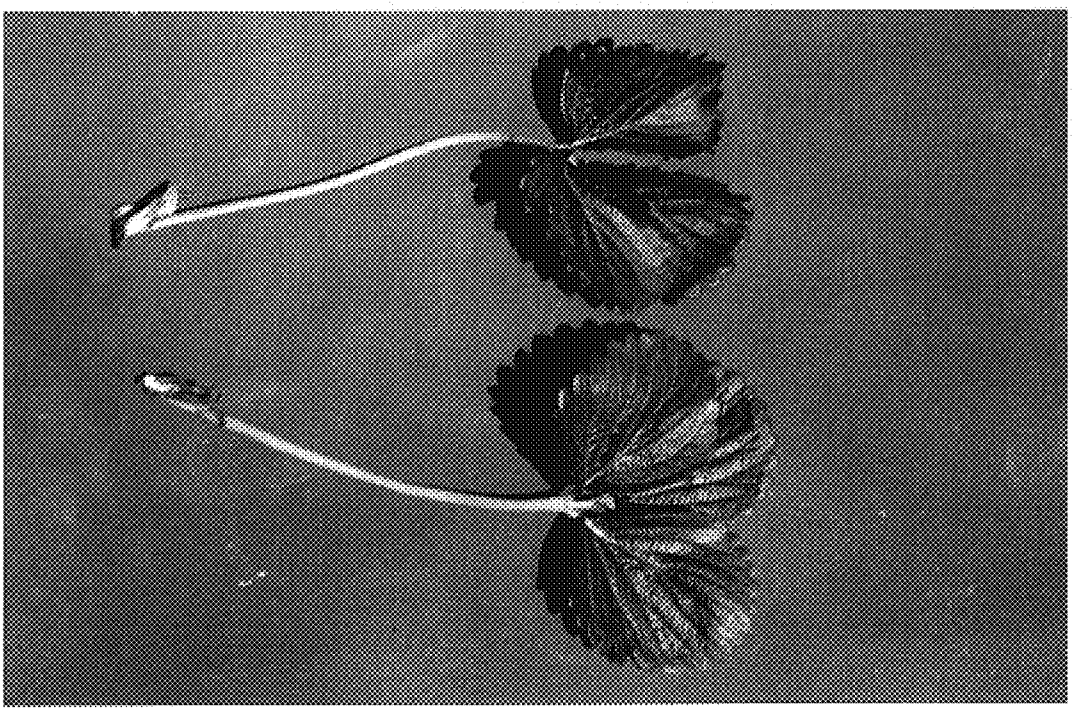

FIG. 2

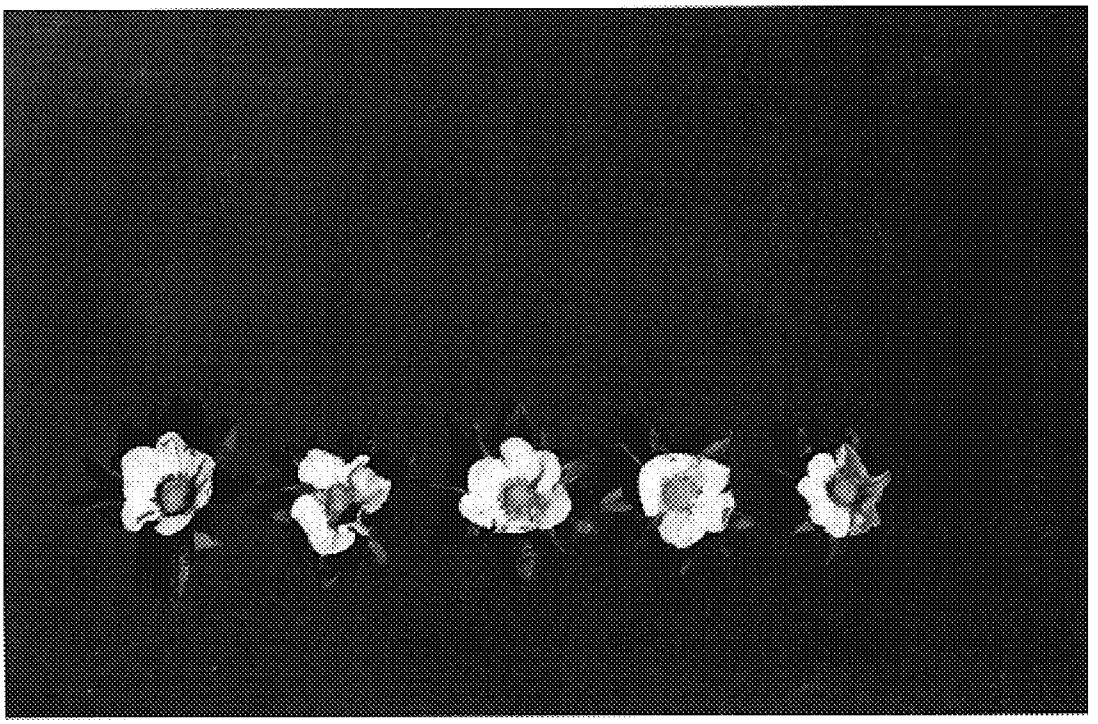

FIG. 3

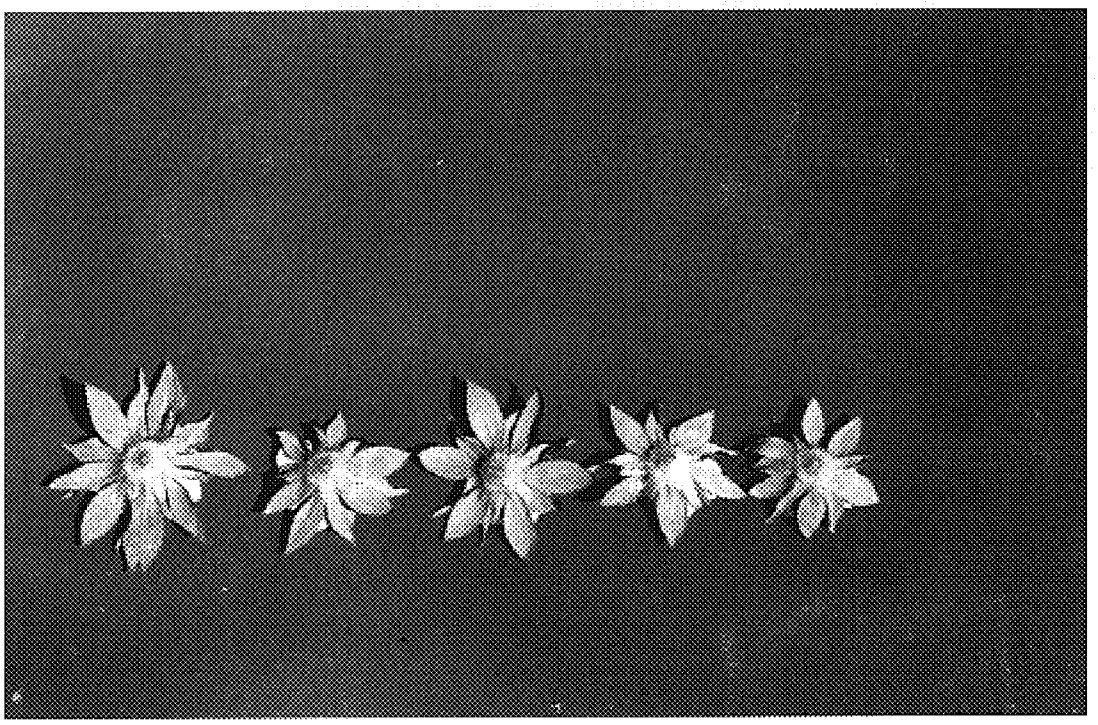

FIG. 4

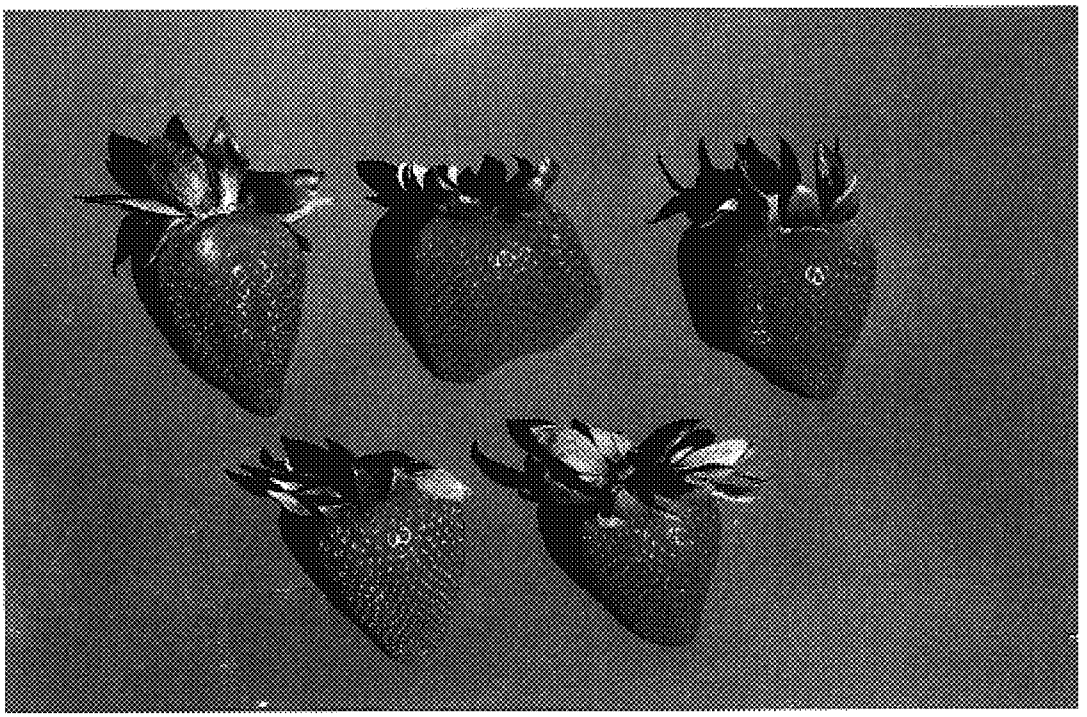

FIG. 5

FIG. 6