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(57)

- **BLACKBERRY PLANT NAMED 'DRISCOLL** (54)**THORNLESS SLEEPING BEAUTY'**
- (50)Latin Name: **Rubus L.** Varietal Denomination: **Driscoll Thornless Sleeping Beauty**
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(52)	U.S. Cl.	Plt./203
(58)	Field of Classification Search	. Plt./203
	See application file for complete search his	story.

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ABSTRACT

The present invention relates to a new and distinct cultivar of blackberry plant named 'Driscoll Thornless Sleeping Beauty.' The new cultivar is distinguished from other blackberry cultivars by its early season crop, large fruit size and thornless canes. 'Driscoll Thornless Sleeping Beauty' produces fruit with improved quality and shipping characteristics. The new cultivar is distinguished from its parent by having thornless canes.

3 Drawing Sheets

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1. Latin name of the genus and species of the plant claimed: The variety is botanically identified as *Rubus* L. subgenus *Rubus*.

1.2 Variety denomination: The Blackberry variety denomination is 'Driscoll Thornless Sleeping Beauty'.

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4. COMPARISON TO SIMILAR VARIETIES

The variety most similar to 'Driscoll Thornless Sleeping' Beauty' from those known to us is 'Sleeping Beauty'. 'Driscoll Thornless Sleeping Beauty' is particularly different from 'Sleeping Beauty' by having thornless canes. Further detailed comparison of 'Driscoll Thornless Sleeping Beauty' to 'Sleeping Beauty' is presented in Table 1.

2. BACKGROUND OF THE INVENTION

This invention relates to a new cultivar of blackberry called 'Driscoll Thornless Sleeping Beauty'. The new cul-¹⁰ tivar was developed from a spineless mutant of the patented cultivar 'Sleeping Beauty' (U.S. Plant Pat. No. 13,758 P3). 'Sleeping Beauty' was developed from a hybridization of the female cultivar 'Brazos' (unpatented) with the male cultivar 'Hull Thornless' (unpatented). The new variety was discov-¹⁵ ered in 2001 in a field of 'Sleeping Beauty' near Jacona, Mexico where after it was propagated to produce plants for planting trials in 2002. The new cultivar was selected in 2001 for its thornless canes. The cultivar has been asexually propagated in Mexico by hardwood cuttings and reproduced true to type plants.

3. SUMMARY OF THE INVENTION

25 The present invention provides a new and distinct blackberry cultivar named 'Driscoll Thornless Sleeping Beauty'. The variety is a complex Rubus hybrid, which can be characterized as an upright tetraploid with considerable R. allegheniensis background with other species such as R_{30} trivialis, R. argutus and R. ulmifolious also appearing in its background. The new cultivar produces a floricane crop which begins in mid May and continues until mid-August. The new blackberry variety is distinguished from other varieties by a number of characteristics as set forth in Table 35 1. In particular, the new cultivar is distinguished by its early season of fruit ripening, its large fruit size, low-chill requirement, and thornless canes.

5. BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographs show typical specimens of the fruit, leaves and shoot of the new cultivar, in color as nearly true as reasonably possible in color illustrations of this type.

FIG. 1. is a photograph showing a close-up view of a primocane shoot.

FIG. 2. is a photograph showing the upperside and underside of two mature leaves of 'Driscoll Thornless Sleep- $_{20}$ ing Beauty'.

FIG. 3. is a photograph of a 'Driscoll Thornless Sleeping Beauty' fruiting lateral with fruit in various stages of development.

6. DESCRIPTION OF THE NEW VARIETY

The following detailed description of the new blackberry cultivar, 'Driscoll Thornless Sleeping Beauty', is based upon recorded observations of plants and fruit grown between 2002 and 2004 in Zamora, Mexico and is believed to apply to plants of the 'Driscoll Thornless Sleeping Beauty' cultivar grown in similar conditions of soil and climate elsewhere. Plants were planted on soil previously pre-plant fumigated and regularly fertilized and irrigated with drip irrigation. This description is in accordance with terminology used by the International Union for the Protection of New Varieties of Plants (UPOV). Throughout this specification, color names beginning with a small letter signify that the name of

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the color, as used in common speech, is aptly descriptive. Color data beginning with a capital letter and followed by an alphanumeric code indicate the most similar color designations as provided by The Royal Horticultural Society (R.H.S.) Colour Chart published by The Royal Horticultural Society of London, England. 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.

6.1 CHARACTERISTICS OF THE NEW VARIETY

TABLE 1-continued

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PLANT CHARACTERISTICS OF 'DRISCOLL THORNLESS SLEEPING BEAUTY', 'BRAZOS', AND 'SLEEPING BEAUTY'

	'Driscoll Thornless Sleeping Beauty'	'Brazos'	'Sleeping Beauty'
Cross section Terminal leaflet	Flat	Concave	Flat
Length (cm)	6.1	7.4	6.4
Width (cm)	4.3	5.1	4.0
Shape	Ovate	Ovate	Ovate
Tip	Acute	Acute	Acute
Base	Rounded to cordate	Rounded	Rounded to cordate
Margin	Doubly serrated	Double serrated	Doubly serrated
Lateral leaflet			
Length (cm)	4.8	6.0	5.4
Width (cm)	3.2	3.9	3.4
Overlap of lateral Leaflets	No	No	No
Shape	Elliptical	Elliptical	Elliptical
Tip	Acute	Acute	Acute
Base	Rounded	Rounded	Rounded
Margin	Doubly	Doubly	Doubly
Rachis length (between terminal leaflet and adjacent lateral (leaflets) (cm) Petiole	serrate 1.2	serrate 1.5	serrate 1.4
Length (cm)	3.5	5.0	3.8
Pigmentation of	146A	144A	146A
upper surface	yellow green	yellow green	yellow green
Pigmentation of	144A	144B	144A
Underside Stimula ariantaion	yellow green	yellow green	yellow green
Stipule orientaion Color	Clasping	Clasping	Clasping
Face	147A	147A	147A
Underside	yellow green 146A	yellow green 146A	yellow green 146A
Underside	yellow green	yellow green	yellow green
FLOWERS			
Flowering period time of beginning of flowering	Early	Early	Early
Flower size	Medium	Large	Medium
Flower diameters	3.9	6.0	4.4
(cm)			
Flower number (at 3rd node from tip of lateral mean and range) Petal	4.0	3.8	4.0
Length (cm)	2.0	2.7	2.3
Width (cm)	1.3	2.2	1.6
Color	155D white	155D white	155D white
Sepal color	144A	144A	144A
-	yellow green	yellow green	yellow green

Table 1 provides information on the plant and fruit characteristics of the new blackberry cultivar 'Driscoll Thornless Sleeping Beauty' compared with characteristics of the patented cultivar 'Sleeping Beauty'. 'Sleeping Beauty' is an important cultivar for fresh market shipping, and thus comparable to the proposed use of the new variety, 'Driscoll' Thornless Sleeping Beauty'. Observations of 'Driscoll Thornless Sleeping Beauty' and 'Sleeping Beauty' were taken in side-by-side comparison in 2004 in Zamora, Mexico.

Fruit of the new cultivar is particularly characterized and distinguished from 'Sleeping Beauty' by thornless canes.

The bud burst of 'Driscoll Thornless Sleeping Beauty' is early, with bud burst, generally, in late January. Additionally, 'Driscoll Thornless Sleeping Beauty' flowers early, with flowering, generally, beginning in late March. 'Driscoll' Thornless Sleeping Beauty' is moderately productive and produces most of its crop in the early part of the harvest season. Canes of 'Driscoll Thornless Sleeping Beauty' are vigorous, and have buds with a low to moderate winter chill noninomont

req	ull	em	en	

Glucosity (waxy)

TABLE 1

PLANT CHARACTERISTICS OF 'DRISCOLL THORNLESS SLEEPING BEAUTY', 'BRAZOS', AND 'SLEEPING BEAUTY'

	'Driscoll Thornless Sleeping Beauty'	'Brazos'	'Sleeping Beauty'
GENERAL			
Vigor Growth habit Productivity Self-fruitfulness Time of bud burst CANES	High Upright Moderate Self-fruitful Early	High Semi-Upright High Self-fruitful Early	High Upright Moderate Self-fruitful Early
Primocanes			
Young shoot pigmentation	144A yellow green	144A yellow green	144A yellow green

bloom)			
Cane cross section	Angular	Grooved	Angular to
(from mid cane of			grooved
primocane)			
Dormant cane color	Brown to purple brown		Brown to purple brown
Spines	Absent	Present	Present
Pubescence on canes	Present	Present	Absent
LEAVES			
Relief between veins	Medium	Medium	Medium

Absent or weak Weak

Pedicel

Weak

Relief between veins	Medium	Medium	Medium
Number of leaflets	Usually 3	Usually 3	Usually 3
Glossiness	Medium	Medium	Medium

yellow green yellow green yellow green

Coloration	absent	absent	absent
Length	Medium	Medium-short	Medium
FRUIT			

Fruit harvest season	Early	Early	Early
Color	Black	Black	Black
Immature	187A	187A	187A
	greyed-purple	greyed-purple	greyed-purple
Maturing	202A black	202A black	202A black

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TABLE 1-continued

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TABLE 1-continued

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PLANT CHARACTERISTICS OF 'DRISCOLL THORNLESS SLEEPING BEAUTY', 'BRAZOS', AND 'SLEEPING BEAUTY'

PLANT CHARACTERISTICS OF 'DRISCOLL THORNLESS SLEEPING BEAUTY', 'BRAZOS', AND 'SLEEPING BEAUTY'

	'Driscoll Thornless Sleeping Beauty'	'Brazos'	'Sleeping Beauty'
Mature fruit Glossiness Shape Dimensions	202A black Medium Elliptic	202A black Medium Ovate	202A black Medium Elliptic

	'Driscoll Thornless Sleeping Beauty'	'Brazos'	'Sleeping Beauty'
Firmness Seeds	Medium	Medium	Medium
Weight (mg) Color	4.3 152B yellow green	3.6 152D yellow green	4.2 152B yellow green

Fruit size	Medium	Large	Medium
Length (cm)	2.7	3.1	2.5
Width (cm)	2.0	2.4	2.1
Soluble solids (%)	13.5	9.0	12.3
Titratable acidity	2.9 mL NaOH	2.3 mL NaOH	3.2 mL NaOH
(% as citric acid)			
Number of	80	79	77
druplets/fruit			

What is claimed:

1. A new and distinctive cultivar of blackberry plant, substantially as shown and described.

* * * * *

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FIG. 1

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FIG,2

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FIG.3