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

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(54) **RED RASPBERRY PLANT NAMED 'VINTAGE'**

(50) Latin Name: *Rubus idaeus* L.
Varietal Denomination: **Vintage**

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(73) Assignee: **The United States of America, as represented by the Secretary Agriculture**, Washington, DC (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 150 days.

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(52) **U.S. Cl.**
USPC **Plt./204**

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

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ABSTRACT

Description and specifications of a new and distinct red raspberry cultivar which originated from seed produced from open pollinated flowers of 'Isabel' (U.S. Plant Pat. No. 9,340) is provided. This new primocane fruiting cultivar can be distinguished by its high yields of large, very bright-red-colored, sweet, flavorful fruit with excellent fresh fruit quality borne on primocanes in late summer.

3 Drawing Sheets

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Latin name of the genus and species of the plant claimed: 'Vintage' is a new red raspberry plant that is a *Rubus idaeus* L.

Variety denomination: The new red raspberry plant claimed is of the variety denominated 'Vintage' containing *Rubus idaeus* germplasm.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct raspberry cultivar designated 'Vintage' and botanically known as *Rubus idaeus* L. This new raspberry cultivar was discovered in Corvallis, Oreg. in August 2004 and originated from open pollinated seed of 'Isabel' (U.S. Plant Pat. No. 9,340; herein incorporated by reference in its entirety). The new cultivar is larger fruited and the fruit is less firm than its maternal parent. The new cultivar has been asexually reproduced annually since 2004 by the use of root cuttings Corvallis, Oreg. The new cultivar was established in vitro from a cane cutting and microcuttings have been rooted from this sort of culture. The new Raspberry plant has been found to be stable and reproduce true to type through successive asexual propagations.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

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

FIG. 1. Shows a section of young cane showing glaucosity and sparseness of prickles.

FIG. 2. Shows the upperside and underside of the plant leaves.

FIG. 3. Shows a range of developmental stages including unopened flower buds, mature open flowers, an immature fruit, a mature fruit without the receptacle, a receptacle with the fruit removed, and a fruiting lateral with ripe fruit.

DETAILED DESCRIPTION OF THE NEW CULTIVAR

The following description of 'Vintage' is based on observations taken from 2006 to 2011 growing seasons in trials in

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Corvallis and Aurora, Oreg. 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. 'Vintage' has not been observed under all possible environmental conditions. Color terminology follows The Royal Horticultural Society Colour chart. London (R.H.S.) (5th edition, 2007).

TABLE 1

Plant characteristics of the new cultivar compared with plant characteristics of the raspberry plant 'Heritage', (unpatented).

Characteristic	'Vintage'	'Heritage'
Plant size	Medium	Large
Plant diameter/density/vigor	Medium to dense, stocky	Medium to dense, tall, slender
Plant height	1.46 m	1.77 m
Plant width	0.96 m	1.00 m
Number of canes per hill	100.33	119.00

TABLE 2

Primocane characteristics of the new cultivar compared with primocane characteristics of 'Heritage' (unpatented).

Characteristic	'Vintage'	'Heritage'
New cane habit	Erect	Erect
Timing of young shoots emergence from soil	Late	Mid
Number of young shoots	Few	Medium
Very young shoots intensity of anthocyanin coloration	Weak red, RHS 185B	Weak red, RHS 185B
Diameter at 1.2 m from base	0.76 cm	0.76 cm
Cane cross-section	Round	Round
Length at time of fruit formation	1.63 m	1.77 m
Number of Nodes	28.33	39.33
Internode length-node 2 to 3 from base	5.33 cm	6.56 cm

TABLE 2-continued

Primocane characteristics of the new cultivar compared with primocane characteristics of 'Heritage' (unpatented).

Characteristic	'Vintage'	'Heritage'
Internode length-midpoint	5.5 cm	5.61 cm
Internode length-node 5 to 6 from terminus	5.08 cm	2.53 cm
Cane color	RHS 144D	RHS 144C streaked with RHS 185B
Pubescence on canes	Absent	Absent
Percent of cane length flowering as primocane	37.33%	28.33%
Primocane strength: full-grown after picking	Strong	Medium to Strong
Glaucosity (waxy bloom) of primocane full-grown after picking	Weak to medium	Weak

TABLE 3

Florican characteristics of the new cultivar compared with florican characteristics of 'Heritage' (unpatented).

Characteristic	'Vintage'	'Heritage'
Diameter at base	1.27 cm	1.08 cm
Diameter at 1.2 m from base	0.74 cm	0.80 cm
Length when dormant	1.75 m	2.16 m
Number of nodes	31.17	41.17
Internode length (at central 1/3 of cane)	6.49 cm	7.36 cm
Cane color (dormant)	RHS 175A, RHS 165A, RHS 165B, RHS 165C & RHS 166A with glaucous bloom: RHS 92C, RHS 92D, RHS 85C, & RHS 85D	RHS 165B & RHS 167A & RHS 164A
Glaucosity (waxy bloom)	Medium to strong	Absent to weak

TABLE 4

Prickle characteristics of the new cultivar compared with prickle characteristics of 'Heritage' (unpatented).

Characteristic	'Vintage'	'Heritage'
Prickles on young shoots	Present	Present
Prickle size	Small	Medium
Length of prickles (1 m from ground at end of growing season)	0.77 mm	1.53 mm
Density of prickles--central 1/3 of cane (dense/med/sparse/absent)	Sparse	Medium
Prickle texture	Hard, heavy	Hard, sharp
Attitude of spine tips	Slightly downward	Downward
Prickle shape	Aristate	—
Prickle apex	Narrowly acuminate	—
Prickle margin	Entire	—
Prickle base	Truncate	—
Prickle color	Red (RHS 60C)	Dark red (RHS 187B)

TABLE 5

Primocane leaf characteristics of the new cultivar compared with primocane leaf characteristics of 'Heritage' (unpatented).

Characteristic	'Vintage'	'Heritage'
Petiole length (range)	2.56-3.90 cm	3.20-4.62 cm
Petiole length	3.12 cm	3.82 cm

TABLE 5-continued

Primocane leaf characteristics of the new cultivar compared with primocane leaf characteristics of 'Heritage' (unpatented).

Characteristic	'Vintage'	'Heritage'
Petiole color--upper surface	RHS 144D	RHS 144B
Petiole color--lower surface	RHS 149D	RHS 145A
Prickle distribution on petioles	Sparse	Medium
Rachis length	45.8 mm	40.1 mm
10 Rachis length	1.38 mm	—
Rachis diameter	RHS 144B	—
Stipule length	0.55 cm	0.58 cm
Stipule orientation	Erect	Erect
Leaf arrangement	Compound, alternate	Compound, alternate
15 Number of leaves per node	One, rarely two	One, sometimes two
Entire leaf length	22.30 cm	—
Entire leaf width	23.87 cm	—
Number of leaflets per leaf	Usually three; ranges from one to five	Usually three; ranges from one to five
20 Terminal leaflet length	9.33 cm	8.88 cm
Terminal leaflet width	5.75 cm	6.35 cm
Terminal leaflet shape	Oval to ovate	Ovate
Terminal leaflet tip/apex	Abruptly or broadly acuminate	Abruptly or broadly acuminate
Terminal leaflet base	Cordate	Cordate
25 Terminal leaflet cross section-plane	Convex	Convex
Terminal leaflet shape of teeth	Obtuse	Obtuse
Terminal leaflet margin	Doubly serrate	Serrate to doubly serrate
30 Terminal leaflet petiolule length	2.32 cm	2.41 cm
Terminal leaflet petiolule width	0.17 mm	—
Terminal leaflet petiolule color abaxial	RHS 144C	—
Terminal leaflet petiolule color adaxial	RHS 145D	—
Distal lateral leaflet length	7.31 cm	7.80 cm
Distal lateral leaflet width	4.07 cm	4.36 cm
Distal lateral leaflet petiolule length	None, sessile	None, sessile
40 Basal lateral leaflet length	9.61 cm	8.89 cm
Basal lateral leaflet width	5.35 cm	4.45 cm
Basal lateral leaflet petiolule length	0.09 cm	0.05 cm
Color of upper surface of leaflet	RHS 146A to RHS N137A	RHS N137B
45 Color lower surface of leaflet	RHS 191A	RHS 194A to RHS 194B
Glossiness	Medium	Medium
Characteristic	'Vintage'	'Heritage'
50 Number of leaflets	3	3
Petiole length	6.09 cm	4.37 cm
Stipule length	6.07 cm	0.41 cm
Terminal leaflet length	7.87 cm	7.28 cm
Terminal leaflet width	5.59 cm	3.83 cm
Terminal leaflet petiolule length	2.49 cm	1.68 cm
60 Basal lateral leaflet length	6.52 cm	6.14 cm
Basal lateral leaflet width	3.62 cm	2.82 cm
Basal lateral leaflet petiolule length	0.72 cm	0.11 cm
Color of upper surface of leaflet	RHS 146A to RHS 137B	RHS 144A
Color lower surface of leaflet	RHS 146A	RHS 148B

TABLE 6

Florican leaf characteristics of the new cultivar compared with florican leaf characteristics of 'Heritage' (unpatented)

Characteristic	'Vintage'	'Heritage'
55 Number of leaflets	3	3
Petiole length	6.09 cm	4.37 cm
Stipule length	6.07 cm	0.41 cm
Terminal leaflet length	7.87 cm	7.28 cm
Terminal leaflet width	5.59 cm	3.83 cm
Terminal leaflet petiolule length	2.49 cm	1.68 cm
60 Basal lateral leaflet length	6.52 cm	6.14 cm
Basal lateral leaflet width	3.62 cm	2.82 cm
Basal lateral leaflet petiolule length	0.72 cm	0.11 cm
Color of upper surface of leaflet	RHS 146A to RHS 137B	RHS 144A
Color lower surface of leaflet	RHS 146A	RHS 148B

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TABLE 7

Flower Characteristics of the new cultivar compared with flower characteristics of 'Heritage' (unpatented).		
Characteristic	Vintage	'Heritage'
Bud shape-top view	Pentagonal	—
Bud shape-side view	Deltoid with rounded base	—
Bud length	10.10 mm	—
Bud diameter	9.03 mm	—
Bud Color	RHS 144A	—
Flower diameter sepal-sepal	1.82 cm	1.77 cm
Flower diameter petal-petal	1.60 cm	1.65 cm
Diameter of calyx relative to corolla	1.44	1.08
Flower depth	8.03 mm	—
Number of nodes/lateral (all nodes are flowering Nodes)	3.17	4.17
Number of nodes per lateral with more than One flower	1.33	0.67
Number of buds, flowers, fruit per lateral	5.50	4.17
Number of buds, flowers, fruits per node	1.50	1.50
Of lateral		
Petal Number	5.33	—
Petal Length	6.53 mm	—
Petal width	3.47 mm	—
Petal shape	Abruptly acuminate	—
Petal apex	Acuminate	—
Petal base	Cuneate	—
Petal margin	Entire, slightly revolute, undulate near apex	—
Color upper and lower surfaces petals	RHS 155B	RHS 155C
Sepal number	5.00	—
Sepal length	8.47 mm	—
Sepal width	4.33 mm	—
Sepal shape	Deltoid	—
Sepal apex	Acuminate to aristate	—
Sepal margin	Entire and tomentose	—
Color inner surface sepals	RHS 145A	—
Color outer surface sepals	RHS 144A	RHS 146C
Pedicel length	2.66 cm	1.27 cm
Pedicel diameter	0.15 cm	—
Pedicel texture	Prickly	—
Color pedicels	RHS 144B	RHS 146B
Stamen number	73.67	—
Filament color	RHS 155C	—
Anther length	0.63 mm	—
Anther width	0.40 mm	—
Anther color-fresh	RHS 158A	—
Anther color-dried	RHS 199B	—
Pollen color	Clear, colorless	—
Pistil number	86.0	—
Stigma color	RHS 157A	—
Stigma shape	Convex, variable	—
Style length	3.23 mm	—
Style color	RHS 157B	—
Ovary Color	RHS N144D	—
Fruiting lateral length-4 th lateral from tip	5.08 cm	5.10 cm
Peduncle length	22.97 mm	—

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TABLE 7-continued

Flower Characteristics of the new cultivar compared with flower characteristics of 'Heritage' (unpatented).		
Characteristic	Vintage	'Heritage'
Peduncle diameter	1.37 mm	—
Peduncle texture	Smooth surface	—
	With sparse Prickles	—
Peduncle color	RHS 144C	—
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Primocane fruit characteristics of the new cultivar compared with fruit characteristics of 'Heritage' (unpatented).		
Characteristic	'Vintage'	'Heritage'
Length	2.01 cm	1.86 cm
Width	2.01 cm	1.87 cm
Length/width ratio	1.04	1.00
Receptacle length	1.48 cm	1.11 cm
Receptacle diameter	0.94 cm	0.75 cm
Drupelet length	0.55 cm	0.50 cm
Drupelet width	0.38 cm	0.34 cm
Number of drupelets per fruit	85.0	88.7
Drupelet weight	39.67 mg	29.12 mg
25		
Individual seed weight	1.20 mg	1.27 mg
Seed length	2.47 mm	—
Seed width	1.50 mm	—
Seed color (dry)	RHS 165D	—
Total seed weight per fruit	121.52 mg	1.27 mg
Glossiness	Medium	Low
30		
Separation from receptacle	Easy	Medium
Drupelet cohesion	Medium	High
Firmness	Medium	Medium
Flavor	Excellent	Mild
Fruit color	Bright Red	Dark Red
Fruit color-immature	RHS 176B	RHS 180B
Fruit color-maturing	RHS 178C	RHS 179A
Fruit color-mature	RHS 53A to RHS 53B	RHS 183B
40		
Titratable acidity (% as citric acid)	12.84	21.79
Soluble solids (% in Brix)	12.21	12.19
pH	3.43	3.08
Harvest season	18 August-15 OCTOBER	8 SEPTEMBER-15 OCTOBER
Length of season	Medium	Medium
Yield (actual kg/plant)	1.90	1.72
Productivity	Medium	Medium
45		
I claim:		
1.	A new and distinct cultivar of red raspberry plant, substantially as illustrated and described, characterized by its high yields of large, bright-red-colored, sweet, flavorful fruit with excellent fresh fruit quality borne on primocanes in late summer.	
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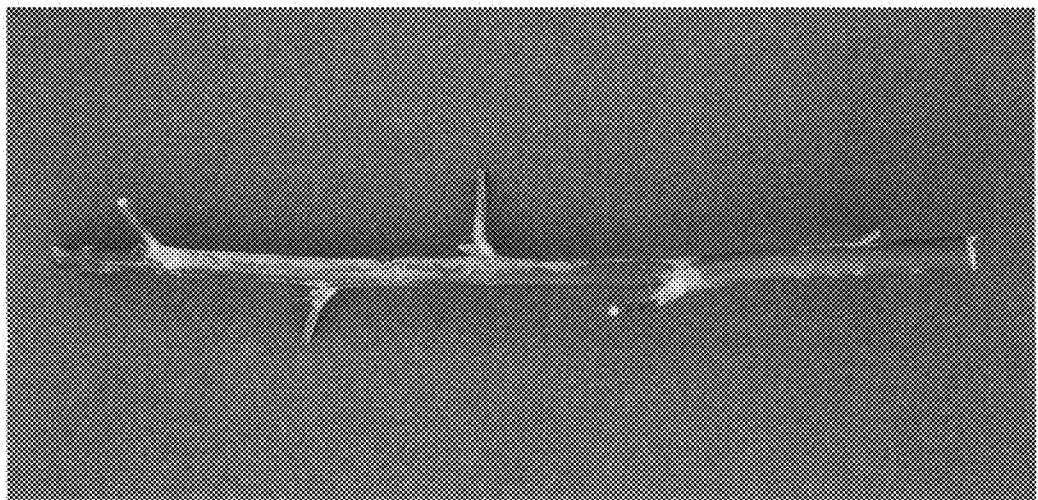


FIG. 1

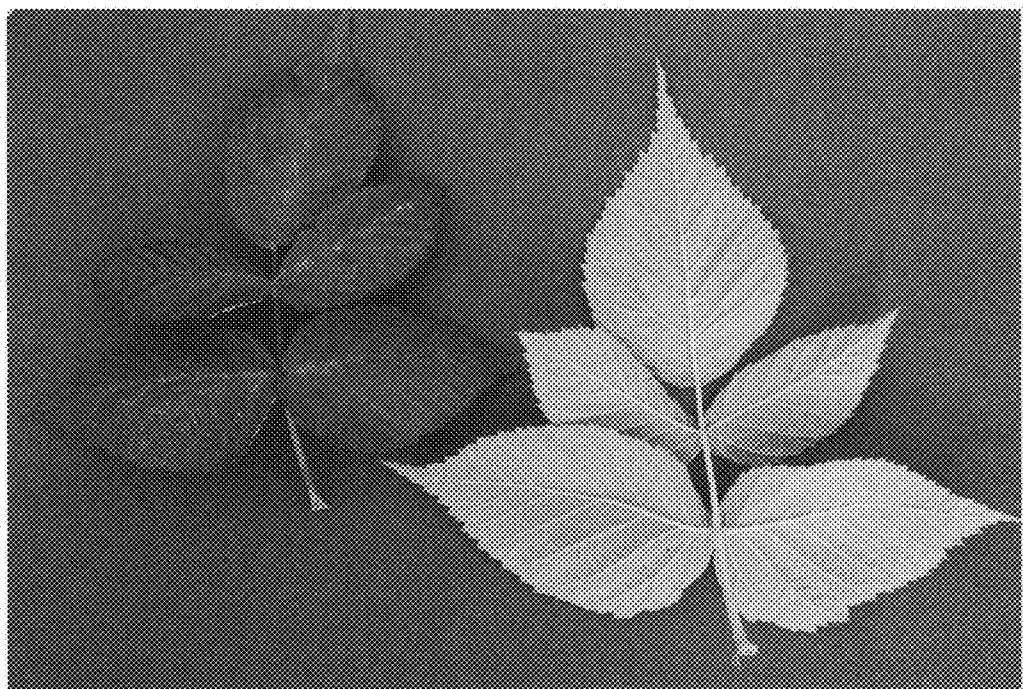


FIG. 2



FIG. 3