



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

(10) **Patent No.:** **US PP28,022 P3**
(45) **Date of Patent:** **May 16, 2017**

(54) **GRAPEVINE NAMED ‘SAUVIGNON RYTOS’**

(50) Latin Name: *Vitis×vinifera* (hybrid)
Varietal Denomination: **SAUVIGNON RYTOS**

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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.: **14/545,100**

(22) Filed: **Mar. 26, 2015**

(65) **Prior Publication Data**

US 2016/0242339 P1 Aug. 18, 2016

(30) **Foreign Application Priority Data**

Feb. 13, 2015 (QZ) PBR 2015/0359

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

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

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

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(57) **ABSTRACT**

A new and distinct variety of grapevine named ‘SAUVIGNON RYTOS’, primarily adapted to the growing conditions of the temperate regions, and characterized by its medium vigor; semi-erect growth habit; wedge-shaped leaves with medium texture; small cylindrical shaped green-yellow berry clusters with a golden nuance on the sunny side of the berries; early maturing, soft berry flesh with no coloration and neutral taste primarily for winemaking; and resistance to winter temperatures (to –23° C.), resistance to downy mildew and tolerance to powdery mildew.

4 Drawing Sheets

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Latin name of the genus and species of the plant claimed:
Vitis×vinifera (hybrid).
Variety name: ‘SAUVIGNON RYTOS’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct summer/fall bearing grapevine variety, botanically known as *Vitis vinifera*, and hereinafter referred to by the name ‘SAUVIGNON RYTOS’.

The new grapevine ‘SAUVIGNON RYTOS’ is a product of a controlled breeding program conducted by the inventors in Udine, Italy. The objective of the breeding program was to develop a new grapevine variety particularly characterized by resistance to cold (<–20° C.), resistance to downy mildew (*Plasmopara viticola*), and tolerance to powdery mildew (*Uncinula necator*).

The new grapevine ‘SAUVIGNON RYTOS’ originated from a cross made by the inventors in 2002 in Udine, Italy. The female or seed parent is the grapevine variety *Vitis vinifera* cv. ‘Sauvignon’ (unpatented), and the male or pollen parent is the grapevine variety *Vitis* cv. ‘Bianca’ (Eger 2×Bouvier) (unpatented).

The new grapevine ‘SAUVIGNON RYTOS’ was discovered and selected by the inventors as a single flowering plant within the progeny of the stated cross in a controlled environment in 2002 in Udine, Italy. Asexual reproduction of the new grapevine variety by grafting was first performed in February 2004 in Rauscedo, Friuli Venezia Giulia region,

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Italy, and has demonstrated that the combination of characteristics as herein disclosed for the new cultivar are firmly fixed and retained through successive generations of asexual reproduction. The new cultivar reproduces true to type.

SUMMARY OF THE INVENTION

‘SAUVIGNON RYTOS’ is primarily adapted to the climate and growing conditions of the temperate regions with average yearly temperature about 13° C., minimum winter temperature about –20° C., annual rainfall around 700-1500 mm of rain (e.g. North-Eastern Italy, Friuli). This region provides the necessary year-round temperatures required to produce and maintain a strong vigorous plant with consistent fruit production from April through November on primocanes and in the ensuing year from April through November on the floricanes.

The following traits have been repeatedly observed and are determined to be unique characteristics of ‘SAUVIGNON RYTOS’, which in combination distinguish this grapevine plant as a new and distinct variety.

1. Medium vigor;
2. Semi-erect growth habit;
3. Medium size wedge-shaped leaves, with a pale green upper and lower surface and medium texture;
4. Small, dense cylindrical clusters with 1 small size wing; early maturing, green-yellow berries with golden nuances on the sunny side of the berries, soft flesh, neutral taste, and no flesh coloration, primarily used for winemaking.

5. Elliptic cross section, brownish color primocanes and floricanes with no lenticels and short-medium internodes (10-11 cm) of 10 mm diameter.
6. Harvesting time in early September (Middle Friuli, North-Eastern Italy); and
7. Resistance to winter temperature (-23°C .), resistance to downy mildew, and tolerance to powdery mildew.

Plants of the new grapevine 'SAUVIGNON RYTOS' differ from plants of the parents, *Vitis vinifera* 'Sauvignon' (unpatented) and 'Bianca' (unpatented), in the following characteristics described in Table 1.

TABLE 1

Comparison with Parent Varieties			
Characteristic	New Cultivar 'SAUVIGNON RYTOS'	Female Parent 'Sauvignon' (unpatented)	Male Parent 'Bianca' (unpatented)
vigor	medium	medium	strong
growth habit	Semi-erect	Semi-erect	semi-erect
leaf	medium size, pale green color (upper surface), pale green color (lower surface), wedge-shaped, medium texture, no hairs in both surfaces	Medium size, green color (upper surface), pale green color (lower surface), circular shape, medium texture, prostrate hairs present in upper surface and in lower surface	medium size, pale green color (upper surface), green color (lower surface), no hairs in both surfaces, wedge-to-kidney-shaped, medium texture
cluster	Low size, cylindrical with 1-2 middle size wings, very dense, berry skin with green-yellow color, soft flesh, neutral taste, no flesh coloration	Low size, cylindrical-conical with 1-2 wings, dense, berry skin with green-yellow color, slightly firm flesh, herbaceous taste, no flesh coloration	Low size, conical, with 1-2 wings, medium bunch density, berry skin with green-yellow color, slightly firm flesh, neutral taste, no flesh coloration
primocane and floricanes	elliptic cross section, brownish color, lenticels: absent, short-middle internodes (10-11 cm), diameter: 10 mm	Circular section, brownish color, lenticels: absent, short-middle internodes (10-11 cm), diameter 10 mm	oblate cross section, brownish color, lenticels: absent, medium internodes, diameter small (about 8 mm)
harvesting time	Medium (early September in Middle Friuli, North-Eastern Italy)	Medium (Early September in Middle Friuli, North-Eastern Italy)	early (end of August to mid-September in Middle Friuli, North-Eastern Italy)
resistances	resistant to winter temperature (-23°C .), resistant to downy mildew, tolerant to powdery mildew,	Average resistance to winter temperature (-15°C .), susceptible to downy mildew, susceptible to powdery mildew	resistant to cold not known; resistant to downy mildew, resistant to powdery mildew

Of the many commercial cultivars known to the present inventor, the most similar to the new grapevine 'SAUVIGNON RYTOS' is the female parent 'Sauvignon', to which a comparison has been provided above.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall appearance of the new grapevine 'SAUVIGNON RYTOS' showing the colors as true as is reasonably possible with colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description, which accurately describe the color of 'SAUVIGNON RYTOS'.

FIG. 1A and FIG. 1B show a typical fruit cluster of 'SAUVIGNON RYTOS', taken on Sep. 7, 2012 in Udine, Italy.

FIG. 2 shows a typical mature leaf (upper surface, left and lower surface, right) of 'SAUVIGNON RYTOS', taken on Jun. 15, 2012 in Udine, Italy.

FIG. 3 shows a typical mature vine of 'SAUVIGNON RYTOS', taken on Aug. 3, 2012.

FIG. 4 shows a close-up view of typical mature fruit of 'SAUVIGNON RYTOS', taken on Aug. 25, 2012 in Udine, Italy

DETAILED BOTANICAL DESCRIPTION

The following description of 'SAUVIGNON RYTOS' unless otherwise noted, is based on observations taken during the 2011, 2012, and 2013 growing seasons(s) in Udine (UD), Italy and Fossalon di Grado (GO), Italy, from plants dug from a nursery located in Rauscedo (PN), Italy during the beginning of December 2007 and planted approximately 16 to 20 weeks later in Udine (UD), Italy and Fossalon di Grado (GO), Italy. The phenotypical descriptions and color designations stated for the new variety may vary, depending upon variations in environmental factors, including weather (temperature, humidity and light intensity), day length, soil type, location and cultural conditions. 'SAUVIGNON RYTOS' has not been observed under all possible environmental conditions.

Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.), (Edition V, 2007), except where general colors of ordinary significance are used.

Characteristic	'SAUVIGNON RYTOS'	'SAUVIGNON' (unpatented)
GENERAL		
Resistance to pest/disease	Resistant to downy mildew, tolerant to powdery mildew	Susceptible to downy mildew and to powdery mildew
Resistance to natural elements	Resistant to winter cold down to -23°C .	Resistant to winter cold down to -15°C .
VINE		
Vigor	Medium	medium
Trunk diameter	6 cm	6.5 cm
Bark		
color	RHS 177B	Dark brown
underbark color	RHS 179B	Light brown
texture	n.a.	n.a.
Canes		
length	Internode length cm 10.5	Internode length about cm 11
width	10 mm	8 mm
Shoots		
shape	Semi-erect, elliptic cross section, surface with stripes, nodes and internodes without hairs	Semi-erected, cross section: circular, surface: smooth, nodes and internodes without hairs
color	Internodes with red (RHS 185B) and green (RHS 144B) pigmentation on the dorsal side and green on the ventral (RHS 144B) side	Internodes with green color on ventral and green ventral and dorsal side

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Characteristic	'SAUVIGNON RYTOS'	'SAUVIGNON'
	(unpatented)	(unpatented)
Tendrils		
form	Bifid	bifid
color	RHS145C and RHS184D	Green
texture	normal	normal
number	2 or <2 consecutive	2 or <2 consecutive
Buds		
size	average	average
shape	round	round
color	RHS139C and RHS181A	Light brown
number	2/node	2/node
time of budbreak	medium	early-medium
LEAVES		
Size	medium	medium
Number of leaflets	3-5	5
Glossiness	Medium-high	medium
Cross section shape	V-shaped	V-shaped
Color (immature)		
Upper surface	RHS 143B and RH5185B	Pale green
Under surface	RHS 143B and RH5185B	Pale green
Color (mature)		
Upper surface	RHS 143B	Medium green
Under surface	RHS 143C	Darker green
Petiole		
Length (cm)	6.2	6.0
Color (upper surface)	RHS 145B and RHS185B	green
Color (under surface)	RHS 145B and RHS185B	green
Stipule orientation	n.a.	n.a.
FLOWERS		
Flowering period (time of beginning of flowering)	End of May	End of May
Sex	hemaphrodite	hemaphrodite
Size	Average	average
Diameter (cm)	0.3 (stamens)	0.3 (stamens)
Stamen color	RHS4 4D	
Pistil color	RHS 149A	
Fragrance	average	average
Flower number (at 3 rd node from tip of lateral mean and range)	n.a.	n.a.
Petals		
Length (cm)	n.a.	n.a.
Width (cm)	n.a.	n.a.
Overall shape	calyptra	calyptra
Calyptra Color	RHS 134A	green
Sepals		
Length (cm)	n.a.	n.a.
Width (cm)	n.a.	n.a.

-continued

Characteristic	'SAUVIGNON RYTOS'	'SAUVIGNON'
	(unpatented)	(unpatented)
5		
Overall shape	n.a.	n.a.
Color (immature)	n.a.	n.a.
Upper surface		
Under surface		
Color (mature)	n.a.	n.a.
Upper surface		
Under surface		
10		
Pedicel		
Length (mm)	7	7
Color	RHS 145C	green
FRUIT		
15		
Primocane time of fruiting (1 st pick)	September 17th	September 7th
Clusters		
cluster weight	Low (g 192)	Low (g 230)
cluster shape	cylindrical	conical
cluster length	mm 180	medium
avg. berries per cluster	150	220
avg. clusters per shoot	2	2
20		
Berries		
25		
Berry size	g 1.3	g 1.0
Berry length (cm)	1.68	1.50
Berry width (cm)	1.40	1.50
Overall shape of berry	ellipsoid	globose
30		
Berry Texture	soft	soft
Berry Skin Color (immature)	RHS 137C	green
Berry Skin Color (mature, at 19° Bx)	RHS 2C and RHS 154C	green
Berry Flesh Color	RHS 148B	
35		
Soluble solids (%)	22.6	21.1
Titrateable acidity (as g/L tartaric acid)	4.8	5.7
Sugar/acid ratio	4.7	3.7
Firmness	soft	soft
40		
Seeds	2-3	2-3
Seed Color	RHS 163B and RHS165A	
Skin cracking?	no	rarely
Juice color	transparent	transparent
Berry taste	Neutral	neutral
Eating quality	n.a.	n.a.
45		
Berry uses	wine	wine
Shipping quality	n.a.	n.a.

What is claimed is:

- 50 1. A new and distinct grapevine, referred to as 'SAUVIGNON RYTOS', as herein described and illustrated by the characteristics set forth above.

* * * * *

FIG. 1A

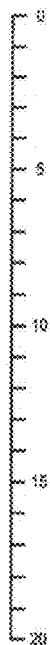
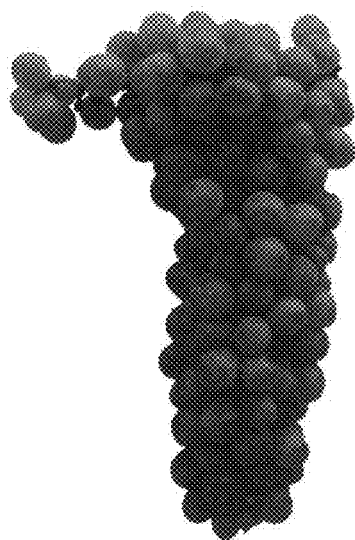


FIG. 1B

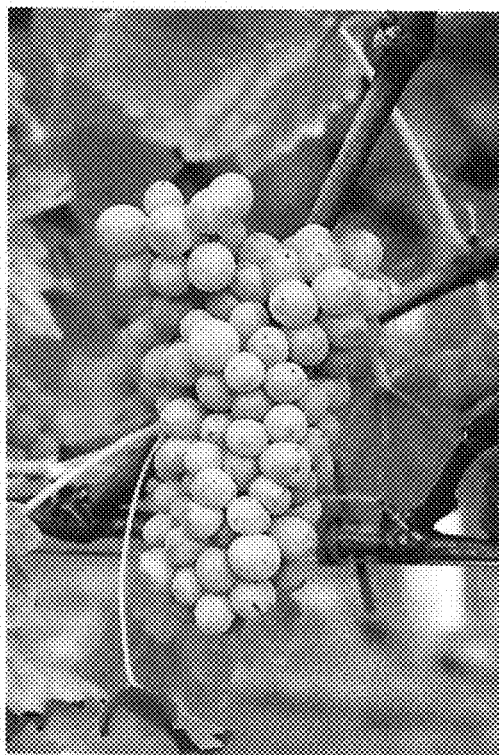


FIG. 2

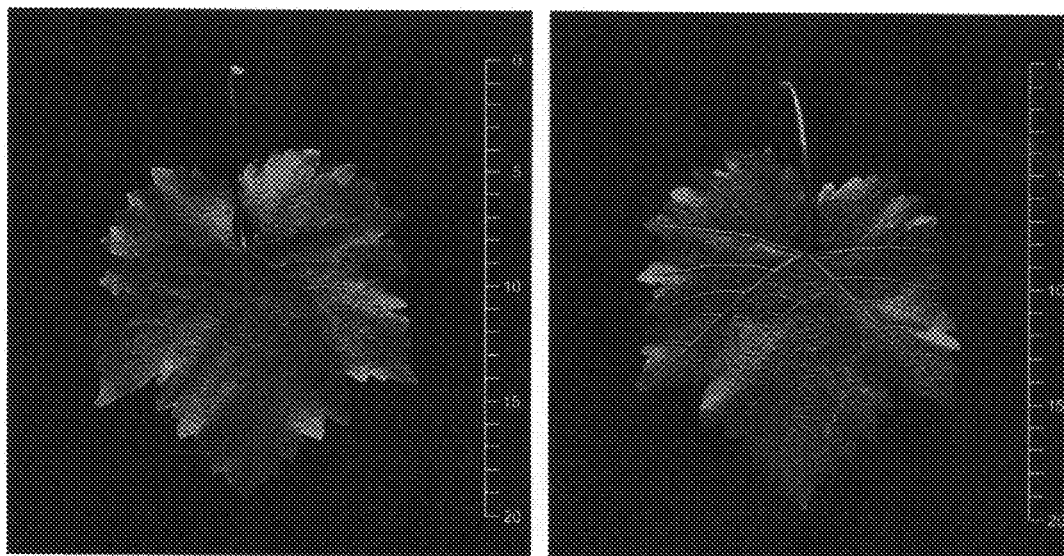


FIG. 3

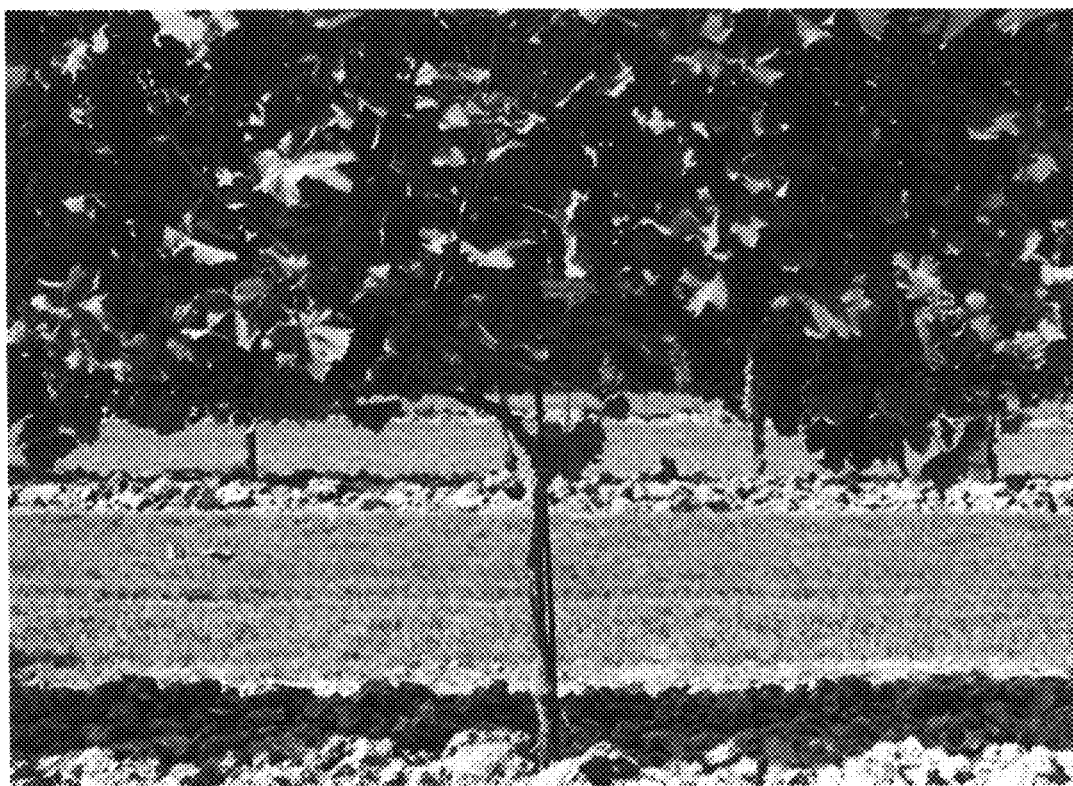


FIG. 4

