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United States Patent [19]

Carmel

[58]

[11] Patent Number:

Plant 8,290

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2				
[54]	ROSE PLA	NT—CAROLA	[56] References Cited	
[7£]	Tarroator.	Cormi Cormal Machay Hayagay	U.S. PATENT DOCUMENTS	
[75]	inventor:	Carmi Carmel, Moshav Hayogev, Israel	P.P. 4,391 3/1979 Delbard	
[73]	Assignee:	Yuval Agricultural Products Ltd.,	FOREIGN PATENT DOCUMENTS	ITS
		Israel	855 6/1978 France.	
[21]	Appl. No.:	767,546	OTHER PUBLICATIONS	
[22]	Filed:	Sep. 27, 1991	Haring P. A. (Ed.) <i>Modern Roses 9</i> , Amer. Rose Soety, 1986, p. 181.	Rose Soci-
	Dala	ted IIS Application Data	Primary Examiner-James R. Feyrer	

Priddy

Related U.S. Application Data

[63] Continuation of Ser. No. 387,837, Aug. 1, 1989, abandoned.

[30]	Fo	reign A	Application Priorit	y Data
Jan	. 12, 198	9 [IL]	Israel	1392/89
[52]	U.S. C	l 		Plt./20

[57] ABSTRACT

A rose plant exhibiting good resistance to powdery mildew, and being characterized by nonfragrant flowers, very high crop, good self-rooting and high stem break forth.

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2 Drawing Sheets

1

This application is a continuation application of application Ser. No. 07/387,837, filed Aug. 1, 1989, now abandoned.

FIELD OF THE INVENTION

The present invention is concerned with a new variety of hybrid tea rose discovered by me and being a mutation of Deladel (U.S. Plant. Pat. No. 4,391, dated Mar. 6, 1979), Madame G. Delbard variety.

SUMMARY OF THE INVENTION

The mutation was first discovered on a cultivated area, in a farm located in South America, at an altitude of about 2,400-2,500 meters above sea level, with average night temperature of 5-8 degrees centigrade, and day temperature of 5-18 degrees centigrade.

Plants were grown in a green-house, and then brought to Israel, where they were vegetatively propagated by selfrooting of cuttings.

Asexual reproduction of this new cultivar as performed at Yuval Agriculture Products at Moshav Ha'Yogev shows that the foregoing characteristics and distinctions came true to form and are established and transmitted through succeeding propagations.

The resulting plants were found to be stable in their botanical characteristics, as are described below and in the attached drawing.

The following is a description of the characteristics of my new rose cultivar which distinguish it from cultivars 30 of which I am aware and especially from Madame G. Delbard (Deladel):

- 1. Better branching.
- 2. Larger flower bud.
- 3. Distinct larger number of petals.
- 4. Larger sepals with larger extensions.
- 5. More water shoots, than the original plant.
- 6. Good grafting compatibility on Rosa indica L.

2

BRIEF DESCRIPTION OF THE DRAWING

The first sheet of the drawing depicts buds of the claimed plant in various stages of opening; the characteristic shape and foliaceous appendages of the sepals are shown along with the high-centered character of the buds themselves. The coloration of the other surfaces of the petals at this stage of opening is also depicted.

The second sheet of drawing shows, in comparison, two petals of Carola, designated as A at the top of the drawing, and petals of comparable stage of maturity as taken from the parent variety "Deladel", labelled B, at the bottom of the drawing. This sheet of drawing also depicts the typical difference in size of the petals taken from the mutation as compared to the parent variety; and, also shows the difference in the size of the spot at the point of petal attachment; that of the parent "Deladel" being much smaller in the comparison; and the difference in coloration; that of the sport being clear white while that of the parent being light yellow in color.

DETAILED DESCRIPTION OF THE INVENTION

The following is a detailed description of my new rose cultivar with color in terminology in accordance with Royal Horticultural Society of London, England (R.H.S.) Colour Chart except where ordinary dictionary significance of color is indicated.

The plant originated from a mutation of Madame G. Delbard.

The following description is based on observations made in Moshav Ha'Yogev, Israel, in a greenhouse:

=		<u> </u>	
Plant	growth habit	upright	
Older stem		corky ¹	

-continued

Plant	growth habit	upright
Young shoot	anthocyanin	strong
	coloration	_
	hue of anthocyanin	purple
	coloration	
Prickles		present
Prickle	shape of upper	straight
	sides	20200110
Short rejoktor	shape of lower side number	concave few
Short prickles Long prickles	number	few
Leaf	size	length 140-170 mm
		width 110-150 mm
	green color	medium to dark
	glosssiness of upper	absent or very weak
	side	
Leaflet	cross section	slightly convex
	undulation of	absent or very weak
Terminal leaflet	margin length of blade	ca. 60 mm
1 CHIMIAN ICANICI	maximum width	ca. 35 mm
	length of petiole	ca. 20 mm
	shape of base	rounded
Flowering shoot	number of flowers	few
Flowering habit	•	continuous
Flower pedicel	number of hairs or	few
·	prickles	• 1
Flower bud	longitudinal	circular to ovoid
Elower	section	double
Flower	type number of petals	33-40
	diameter	ca. 110 mm
	view from above	rounded to star-
		shaped
	side view of upper	flattened-convex
	part	_
	side view of lower	flat
	part	
Sama1	fragrance length	none 40-55 mm
Sepal	extensions	strong
Petal	size	length 50-60 mm
2 0		width 55-65 mm
	shape	rounded
	color of middle	RHS 53-A dark red
	zone of inner side	
	(according to the	
	Royal Horticultural	
	Society Color Chart)	
	color of marginal	RHS 53-A dark red
	zone of inner side	
	spot at base of	present
	inner side	
	size of spot at	medium (length of
	base of inner side	spot on the upper
		side of the petal was 8-10 mm)
	color of spot at	white (RHS 155-D)
	base of inner side	······································
	color of middle	RHS 53-C dark red
	zone of outer side	
	color of marginal	RHS 53-C dark red
	zone of outer side	
	spot of base of	present
•	outer side	
	size of spot at base of outer side	very small to small
	color os spot at	white
	base of outer side	***************************************
	reflexing of margin	strong
	undulation of	weak
	margin	_
Stamen	predominant color	purple
	of filament	1
	length	long
	predominant color hairiness of upper	purple medium
	half	mooiulli
	position as	above
	compared with	
	anthers	

		-	
-con	tın	ned	

Plant	growth habit	upright	
5	size shape of longitudinal section	medium pitcher shaped	

¹Typical for hybrid tea roses.

The time of beginning of flowering is early.

The average number of petals per flower: 33-38.

The bud size at time of picking is 5-6 cm long, and 3 cm in diameter.

The number of side shoots per flowering branch is 5-6.

The annual produce is 150-160 flowers per square meter.

Flowering stem medium green, 70-80 cm long with an average of 13 leaves.

The vase life is up to 15 days, under condition of room temperature.

Average number of water shoots, in 1st year after planting 4-6.

Prickles, per internode — 2-3.

Prickles up to 3rd leaf — 1.

Number of leaflets per leaf — 5-7.

Budding sprout — 8-9.

Fragrance — none.

Plant's height in 8 months after planting 170-180 cm.

Time from planting to commercial flower production 6-8 months.

Good resistance to Rose Powdery Mildew.

Exhibits high stem break forth, very high crop and good self-rooting.

Under condition of room temperature flower opening proceeds

Under condition of room temperature flower opening proceeds slowly.

The variety should be grown under glass.

40 Comparison Of Production Characteristics Between The New Variety "Carola" and Variety "Deladel"

Observations made in Ecuador from commercial plantings during 1988-1990, where the two varieties were grown side by side, under the same conditions and same age, were both self-rooted and with the same planting time. Each one 10,000 square meters of plants.

50		Carola	Deladel
	Average number of petals Average number of cut flowers per plant per month (year	33-38 1.85-2.00	18-25 0.90-1.25
55	round production) Average number of water- shoots in first year after planting	4–6	2–3
	Plant height in 8 months	170–180 cm	80-90 cm
	after planting Size of spot at base of inner side	medium	very small
60	Color of spot at base of	white	yellow
	inner side of petal	(RHS 155-D)	
	Fragrance of flower	none	slight, not sweet of spicy
	Time from planting to commercial flower production	6-8 months	10-12 months
65	Grafting compatibility on	very good	very poor
	Rosa indicia L.	(about 65% success)	

The size of the spot was, for the variety 'Carola' defined

as: size of spot at base of inner side of petalmedium, and size of spot at base of outer side of 5 petal-very small to small, using the sketch of the Test Guidelines for Rose of the Union for Protection of New Plant Varieties (document TG/11/4)-applying the following calculation:

[1+{(average length of spot/average length of petal)-1}]/(35-1)*8

With lower value of length of spot 1 mm, and higher $_{15}$ value of length of spot 35 mm.

Statistical Analysis For Additional Observations Made In Ecuador In Order To Compare Carola With Deladel

	Carola	Deladel	
Number of petals:	•		2
standard deviation	7.77	3.92	4
mean	32.05	22.35	
Plant height in 8 months:			
standard deviation	0.13	0.10	
mean	1.97	1.50	
Basal shoots:			
standard deviation	1.48	0.67	
mean	3.00	1.32	
Flowers per plant:			
standard deviation	0.53	0.48	
mean	1.76	1.17	

In all tests of the examined characteristics, the conclusion was that the population differ with a high level of significance.

Comparison Of Production Characteristics Between The New Variety Odem And Variety Carola

The new variety Odem is a variety that was subsequently discovered and is a spot of Carola. They differ as described below:

	Odem	Carola
Average number of petals	39-48	33-38
Size of petal		
length	37–45 mm	50-60 mm
width	39-49 mm	55-60 mm
Flower		•
diameter	ca. 80 mm	ca. 100 mm
color of upper side	RHS 46-AB	RHS 53-A
Petal's reflexing	medium	strong
Size of spot at base of inner side of petal	small	medium
Color of spot at base of inner side	yellow	white
Length of flowering stem	50-70 cm	70-90 cm
Thickness of flowering stem	medium	thick
Number of flowering stems per	about double	
plant per year	as for	
- ·	Carola	

I claim:

1. A new and distinct variety of rose plant of a hybrid tea rose, variety, named Carola, as shown and described, and consisting mainly of plants being vigorous growing, showing a large flower bud, containing a large number of petals, having nonfragrant with petals with a medium-sized white spot at their base, with early and prolific flower production, and having fast and good propagating features.

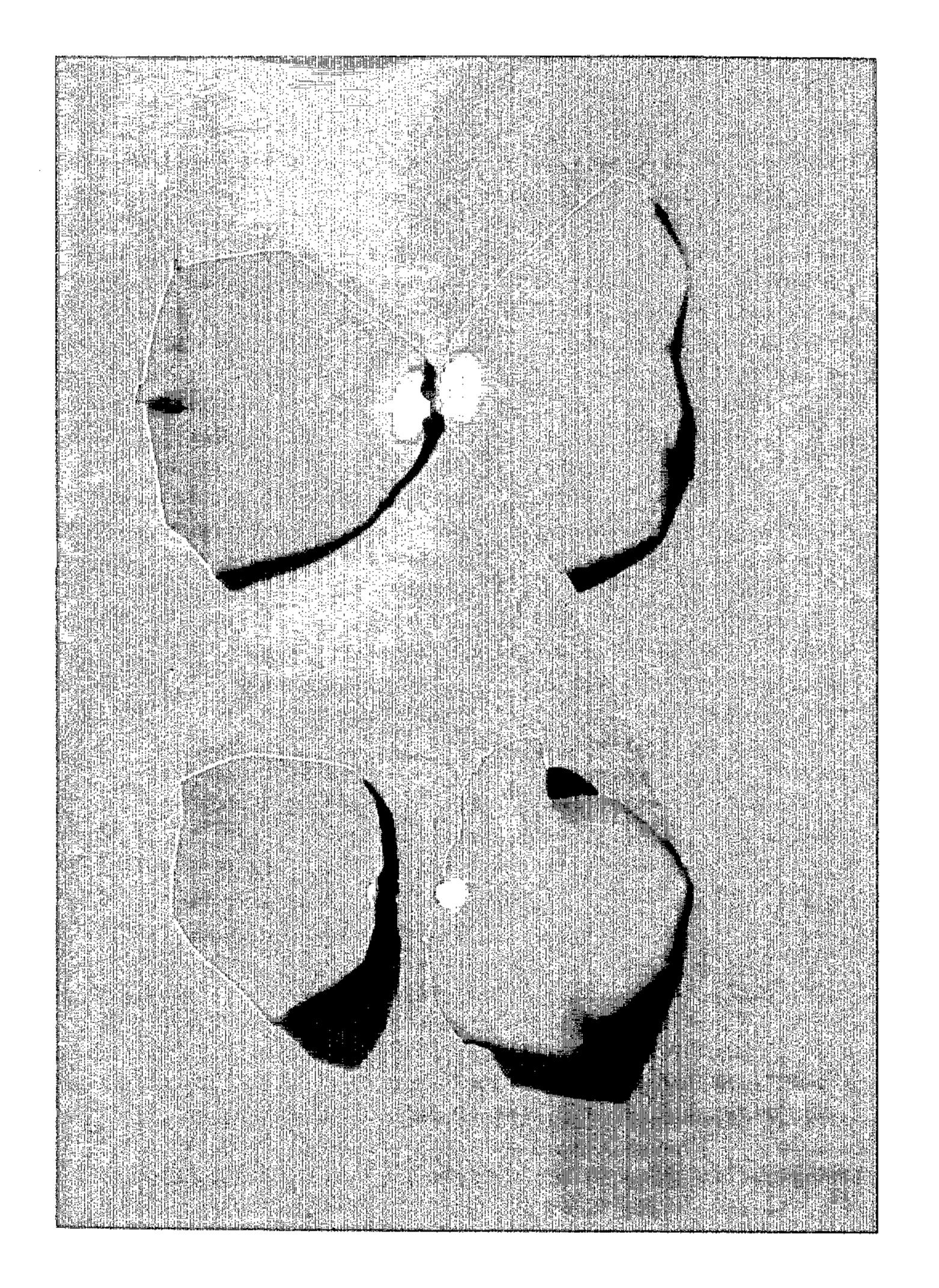
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45

50

55

60



A

B

