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# United States Patent [19]

[11] Patent Number: Plant 9,950

Noodelijk

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[54] CHRYSANTHEMUM PLANT NAMED 'DARK SPLENDID REAGAN'

[52] U.S. Cl. .... Plt./74.1

[58] Field of Search ..... Plt./74.1, 82.4

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[73] Assignee: Chrysanthemum Breeders Association, N.V., Netherlands

### [57] ABSTRACT

A new and distinct cultivar of chrysanthemum plant named Dark Splendid Reagan, bearing medium sized purple blooms with a yellow-green center and performance of 24–28 days.

[21] Appl. No.: 646,224

[22] Filed: May 6, 1996

[51] Int. Cl.<sup>6</sup> ..... A01H 5/00

2 Drawing Sheets

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### BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of Chrysanthemum plant which is a natural occurring sport of a parent Chrysanthemum named Reagan. Parent Chrysanthemum Reagan is described in U.S. Plant Pat. No. 8,642. The new cultivar was discovered as a whole plant mutation in 1991 in a greenhouse in Holland. Other naturally occurring mutations of 'Reagan' for which U. S. Plant Patent protection is being sought include the cultivar 'Dark Red Reagan' (copending plant patent application Ser. No. 08/642,905) and 'Sunny Reagan' (copending plant patent application Ser. No. (08/642,904).

The invention has been asexually reproduced by cuttings at the same location. The new cultivar has been found to retain all of its distinctive characteristics through successive asexual propagations.

### SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of Chrysanthemum of a medium sized bloom and purple color.

### BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of Chrysanthemum is shown in the accompanying drawings, the color being as nearly true as possible with color photographs of this type.

FIG. 1 shows the full bloom of the new cultivar.

FIG. 2 shows the various stages of bloom of the new cultivar.

FIG. 3 shows foliage and petiole of the new cultivar.

### DESCRIPTION OF THE INVENTION

This new variety of Chrysanthemum is of the botanical classification *Chrysanthemum morifolium*. When grown in the vicinity of Ter Aar, Holland, it has a response time of approximately 7½ weeks. This new variety produces medium sized purple blooms with a yellow-green center having a 4 week performance (i.e., vase life of 24–28 days). This new variety of Chrysanthemum has been found to retain its distinctive characteristics throughout successive propagations and may be planted under greenhouse conditions in Holland between weeks 50 and 35.

The following is a description of the plant and characteristics (color designations are from R.H.S. Color Chart) that distinguish it from related known varieties and its antecedents: The color designations are taken from the plant itself.

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Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances.

### Detailed Botanical Description and Comparative Data

CULTIVAR	Dark Splendid Reagan	Parent Cultivar Reagan
<u>Bud</u>		
Size	Medium cross section ±1.0 cm height ±0.7 cm	Medium cross section ±1.0 cm height ±0.7 cm
Form	Round and flat	Round and flat
Outside Color	Near Red-Purple 70A	Greyed Purple 186D but paler
<u>Bloom</u>		
Size Fully Expanded	Medium 6½–7 cm	Medium 6½–7 cm
Borne	Upper portion, single flower per peduncle, lower portion plural flowers per peduncle	Upper portion, single flower per peduncle, lower portion plural flowers per peduncle
Peduncle Lengths	Near the top ±14 cm, near the middle ±24 cm, near the bottom ±28 cm	Near the top ±14 cm, near the middle ±24 cm, near the bottom ±28 cm
Peduncle Lateral Shoot, Attachment	medium	medium
Peduncle Lateral Shoot, Angle	small	medium
Form	Single (Daisy)	Single (Daisy)
Performance	Very good 24–28 days (18–20° C.)	Very good 24–28 days (18–20° C.)
<u>Color</u>		
Center of Flower	Immature: Yellow-Green 144A Mature: Yellow-Green 154A	Immature: Yellow-Green 151C Mature: Yellow-Green 154A
Base of Petals	Near Red-Purple 71C but very slightly more blue	Purple 75B
Outer Petals	Near Red-Purple 71C but very slightly more blue	Purple 75B
Inside of Petals	Near Red-Purple 71C but very slightly more blue	Purple 75B
Reverse of Petals	Nearest Purple-Violet 80D but more grey and with a slightly deeper tonation	Red-Purple 69D but paler

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Detailed Botanical Description and Comparative Data		
Tonality from Distance	A purple daisy with a fresh looking center having a little or no pollen	A pale pink daisy with a fresh looking center having a little or no pollen
Discoloration	Some to Red-Purple 72C	Some to Red-Purple 69D
Pollen	Yellow-Orange 14A	Yellow-Orange 14A
Petals		
Texture	Upperside smooth, underside smooth	Upperside smooth, underside smooth
Number	24-30 (two rows)	24-30 (two rows)
Cross-section	convex, no keels	flat, two keels
Arrangement	Imbricated	Imbricated
Persistence	Good. Petals keep straight or reflex somewhat at the edge at the end of blooming	Good. Petals keep straight or reflex somewhat at the edge at the end of blooming
Fragrance	Typical Chrysanthemum	Typical Chrysanthemum
Disc Diameter	Medium to large (1.5-2.0 cm)	Medium (1.5 cm)
Reproductive Organs		
Stamen	Yellow, thick, 3 mm in length	Yellow, thick, 3 mm in length
Pollen	Appears at late stage of blooming	Appears at late stage of blooming
Styles	Green, thick	Green, thick
Style Length	±5 mm	±5 mm
Stigmas	Yellow	Yellow
Stigma Width	±1 mm	±1 mm
Ovaries	Enclosed in calyx	Enclosed in calyx
Plant		
Form	Spray mum meant for erect culture. Herbaceous.	Spray mum meant for erect culture. Herbaceous.
Growth	Medium	Strong
Height	100-125 cm	100-125 cm
Stem Color	Yellow-Green 144A	Yellow-Green 144A
Stem Strength	Strong	Medium
Stem Brittleness	Absent	Present
Stem	Present, at the base and along the ribs	Absent
Anthocyanin		
Coloration		
Internodes	3 cm	3 cm
Flowering	7½ weeks	7½ weeks
Response		
Foliage		
Color	Upperside Green 137A. Underside Green 137C.	Upperside Green 137A. Underside Green 137C.
Size	Length ±11 cm. Width ±9 cm.	Length ±12 cm. Width ±9 cm.
Quantity	22-28	22-28
Shape	Lobed, see photograph	Lobed, see photograph
Texture	Upperside rough, underside smooth, slightly hirsute	Upperside rough, underside smooth, slightly hirsute
Ribs and Veins	Ribs well developed. Veins not so developed.	Ribs well developed. Veins not so developed.
Edge	Crenated	Crenated
Shape of Base of Sinus	Round	Round
Between Lateral Lobes		
Margin of Sinus	Converging	Converging
Between Lateral Lobes		
Shape of Base	Cordate	Rounded

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Detailed Botanical Description and Comparative Data		
Apex	Mucronate	Cupsidate
Response time		
Difference in days of average response	+1	0
Response to ALAR		
Dose utilized to obtain plant	300	300
height of about 90 cm		
Year of Discovery	1991	1986
CULTIVAR	Dark Red Reagan	Sunny Reagan
Bud		
Size	Medium cross section ±1.0 cm height ±0.7 cm	Medium cross section ±1.0 cm height ±0.7 cm
Form	Round and flat	Round and flat
Outside Color	Near Greyed Purple 186A	Between Yellow 7A/Yellow 9A
Bloom		
Size	Medium	Medium
Fully Expanded	6½-7 cm	6½-7 cm
Borne	Upper portion, single flower per peduncle, lower portion plural flower per peduncle	Upper portion, single flower per peduncle, lower portion plural flower per peduncle
Peduncle Lengths	Near the top ±14 cm, near the middle ±24 cm, near the bottom ±28 cm	Near the top ±14 cm, near the middle ±24 cm, near the bottom ±28 cm
Peduncle Lateral Shoot, Attachment	Weak to medium	medium
Peduncle Lateral Shoot, Angle	small	medium
Form	Single (Daisy)	Single (Daisy)
Performance	Very good 24-28 days (18-20° C.)	Very good 24-28 days (18-20° C.)
Color		
Center of Flower	Immature: Yellow-Green 144A Mature: Yellow-Green 154A	Immature: Yellow-Green 144A Mature: Yellow-Green 154A
Base of Petals	Unevenly colored; near Greyed-Red 182A lightly streaked with Greyed-Orange 167B	Yellow 5A deepening slightly to Yellow 6A in the basal half
Outer Petals	Unevenly colored; near Greyed-Red 182A lightly streaked with Greyed-Orange 167B	Yellow 5A deepening slightly to Yellow 6A in the basal half
Inside of Petals	Unevenly colored; near Greyed-Red 182A lightly streaked with Greyed-Orange 167B	Yellow 5A deepening slightly to Yellow 6A in the basal half
Reverse of Petals	Yellow-White 158A tinged with Greyed-Purple 186D between the ribs and towards the margin	Yellow 6A
Tonality from Distance	A red daisy with a fresh looking center having a little or no pollen	A yellow daisy with a fresh looking center having a little of no pollen
Discoloration	Some to Greyed-Red 181C	Some to Yellow 5B
Pollen	Yellow-Orange 14A	Yellow-Orange 14A

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Detailed Botanical Description and Comparative Data		
<u>Petals</u>		
Texture	Upperside smooth, underside smooth	Upperside smooth, underside smooth
Number	24-30 (two rows)	24-30 (two rows)
Cross-section	convex, two keels	convex, two keels
Arrangement	Imbricated	Imbricated
Persistence	Good. Petals keep straight or reflex somewhat at the edge at the end of blooming.	Good. Petals keep straight or reflex somewhat at the edge at the end of blooming.
Fragrance	Typical Chrysanthemum	Typical Chrysanthemum
Disc Diameter	Medium to large (1.5-2.0 cm)	Medium to large (1.5-2.0 cm)
<u>Reproductive Organs</u>		
Stamen	Yellow, thick, 3 mm in length	Yellow, thick, 3 mm in length
Pollen	Appears at late stage of blooming	Appears at late stage of blooming
Styles	Green, thick	Green, thick
Style Length	±5 mm	±5 mm
Stigmas	Yellow	Yellow
Stigma Width	±1 mm	±1 mm
Ovaries	Enclosed in calyx	Enclosed in calyx
<u>Plant</u>		
Form	Spray mum meant for erect culture. Herbaceous.	Spray mum meant for erect culture. Herbaceous.
Growth	Medium	Strong
Height	100-125 cm	100-125 cm
Stem Color	Yellow-Green 144A	Yellow-Green 144A
Stem Strength	Strong	Strong
Stem	Absent	Absent
Brittleness		
Stem Anthocyanin Coloration	Present, at the base and along the ribs	Present, mainly at the base
Internodes	3 cm	3 cm
Flowering	7½ weeks	7½ weeks
Response		
<u>Foliage</u>		
Color	Upperside Green 137B.	Upperside Green

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Detailed Botanical Description and Comparative Data		
	Underside Green 137C.	137A.
		Underside Green 137C.
Size	Length ±11 cm. Width ±9 cm.	Length ±12 cm. Width ±9 cm.
Quantity	22-28	22-28
Shape	Lobed, see photograph	Lobed, see photograph
Texture	Upperside rough, underside smooth, slightly hirsute	Upperside rough, underside smooth, slightly hirsute
Ribs and Veins	Ribs well developed. Veins not so developed.	Ribs well developed. Veins not so developed.
Edge	Crenated	Crenated
Shape of Base of Sinus	Round	Round
Between Lateral Lobes		
Margin of Sinus	Converging	Converging
Between Lateral Lobes		
Shape of Base	Cordate	Truncate
Apex	Mucronate	Mucronate
<u>Response time</u>		
Difference in days of average response	+1½	+1½
<u>Response to ALAR</u>		
Dose utilized to obtain plant	300	450
height of about 90 cm		
Year of Discovery	1992	1991

I claim:

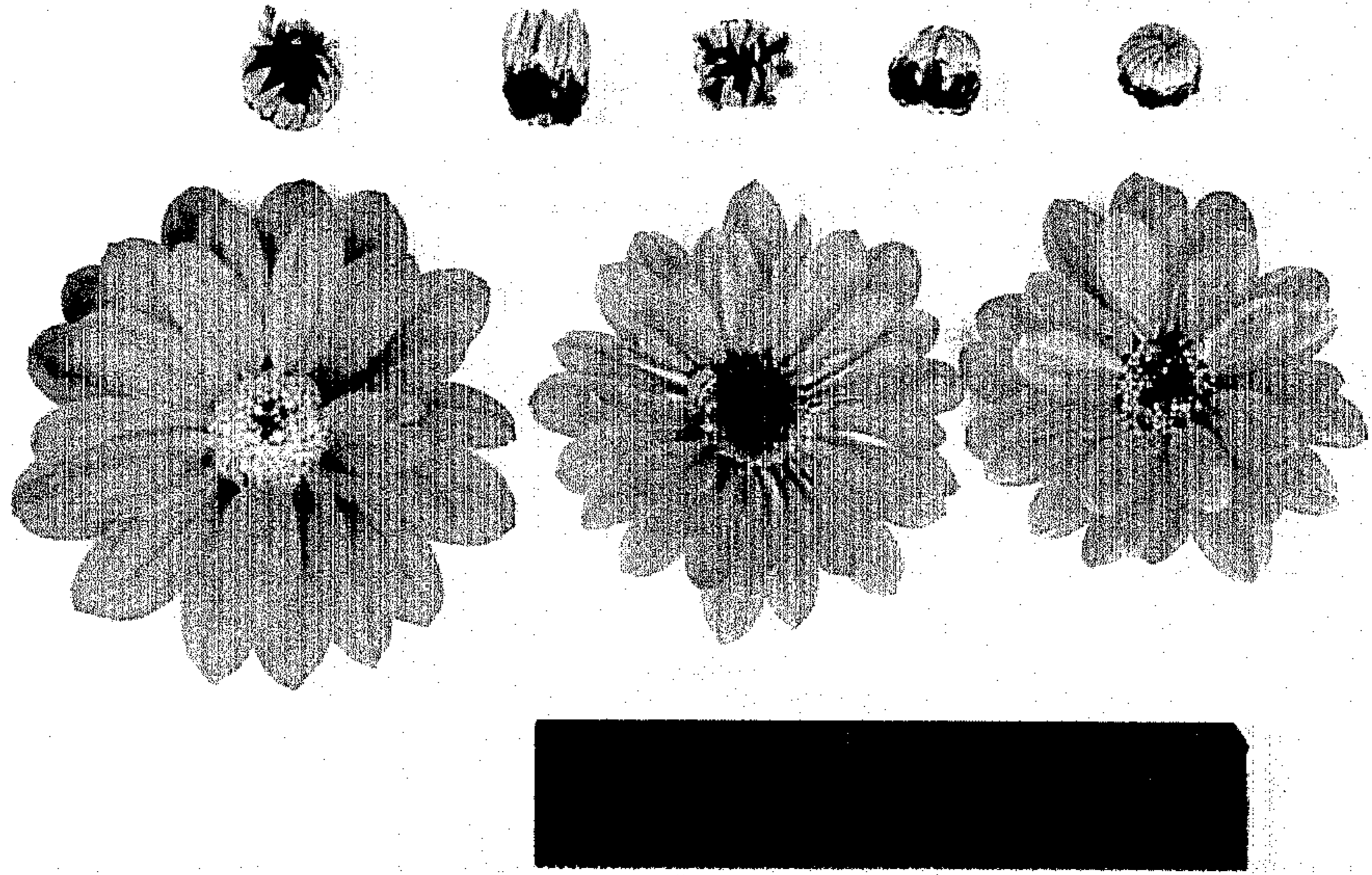
1. A new and distinct variety of Chrysanthemum plant as described and illustrated.

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***FIG. 1***



*FIG. 2*



*FIG. 3*

