



US00PP10209P

United States Patent [19]  
Noodelijk

[11] Patent Number: Plant 10,209  
[45] Date of Patent: Jan. 20, 1998

[54] CHRYSANTHEMUM PLANT NAMED  
‘CREAM REAGAN’  
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[21] Appl. No.: 738,606  
[22] Filed: Oct. 29, 1996  
[51] Int. Cl.<sup>6</sup> ..... A01H 5/00  
[52] U.S. Cl. .... Plt./82.2  
[58] Field of Search ..... Plt./82.2, 74.1

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[57] ABSTRACT

A new and distinct cultivar of Chrysanthemum plant named ‘Cream Reagan’, bearing small to medium sized pale yellow blooms with a yellow-green center and performance of 24–28 days.

2 Drawing Sheets

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The cultivar ‘Cream Reagan’ as described and illustrated herein is related to the following cultivars:

‘Dark Red Reagan’ (U.S. Plant Pat. No. 9,929);  
‘Sunny Reagan’ (U.S. Plant Pat. No. 9,928);  
‘Reagan’ (U.S. Plant Pat. No. 8,642);  
‘Salmon Reagan’ (U.S. Plant Pat. No. 8,869);  
‘Sulfur Reagan’ (U.S. Plant Pat. No. 8,786);  
‘Dark Reagan’ (U.S. Plant Pat. No. 8,966);  
‘Orange Reagan’ (U.S. Plant Pat. No. 8,769);  
‘Bronze Reagan’ (U.S. Plant Pat. No. 8,865);  
‘White Reagan’ (U.S. Plant Pat. No. 8,784);  
‘Coral Reagan’ (U.S. Plant Pat. No. 8,974);  
‘Yellow Reagan’ (U.S. Plant Pat. No. 8,884);  
‘Dark Splendid Reagan’ (U.S. Plant patent application Ser. No. 08/646,224); and  
‘Splendid Reagan’ (U.S. Plant patent application Ser. No. 08/738,605).

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 1990 in a greenhouse in Holland.

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 small to medium sized bloom and pale yellow 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.

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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 small to medium sized pale yellow 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. 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		Cream Reagan	Sunny Reagan
25	<u>Bud</u>		
	Size	Medium cross section ±1.0 cm height ±0.7 cm	Medium cross section ±1.0 cm height ±0.7 cm
30	Form	Round and flat	Round and flat
	Outside Color	Near Yellow 8A	Between Yellow 7A/Yellow 9A
	<u>Bloom</u>		
35	Size	Small to Medium	Medium
	Fully Expanded	6–6½ cm	6½–7 cm
	Borne	Upper portion single flower per peduncle lower portion plural flo- wers per peduncle	Upper portion, single flower per peduncle, lower portion plural flowers per pe- duncle
40	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
45	Peduncle Lateral Shoot, Attachment	Medium	medium
	Peduncle Lateral Shoot, Angle		
	Form	Single (Daisy)	Single (Daisy)
	Performance	Very good 24–28 days (18–20° C.)	Very good 24–28 days (18–20° C.)

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Detailed Botanical Description and Comparative Data		
Color		
<u>Center of Flower:</u>		
Immature	Yellow-Green 143B	Yellow-Green 151C
Mature	Yellow-Green 154A	Yellow-Green 154A
Base of Petals	Nearest Yellow 4C	Yellow 5A deepening slightly to Yellow 6A in the basal half
Outer Petals	Nearest Yellow 4C	Yellow 5A deepening slightly to Yellow 6A in the basal half
Inside of Petals	Nearest Yellow 4C	Yellow 5A deepening slightly to Yellow 6A in the basal half
Reverse of Petals	Nearest Yellow 4C	Yellow 6A
Tonality from Distance	A pale yellow daisy with a fresh looking center having a little or no pollen	A yellow daisy with a fresh looking center having a little or no pollen
Discoloration	None	Some to Yellow 5B
Pollen	Yellow-Orange 14A	Yellow-Orange 14A
<u>Petals</u>		
Texture	Upperside smooth, underside smooth	Upperside smooth, underside smooth
Number	24-30 (two rows)	24-30 (two rows)
Cross-section	Convex (no 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 to tall	Strong
Height	100-125 cm	100-125 cm
Stem Color	Yellow-Green 143C	Yellow-Green 144A
Stem Strength	Medium	Strong
Stem Brittleness	Absent	Absent
Stem Anthocyanin Coloration	Absent	Present, mainly at the base
Internodes	3-3½ cm	3 cm
Flowering Response	7½ weeks	7½ weeks

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Detailed Botanical Description and Comparative Data		
<u>Foliage</u>		
Color	Upperside green 137A. Underside Green 137C.	Upperside Green 137A. Underside Green 137C.
Size	Length ±12 cm. Width ±10 cm.	Length ±12 cm. Width ±9 cm.
Quantity	22-28	22-28
Shape	Lobed, see photograph	Lobed
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 Between Lateral Lobes	Round	Round
Margin of Sinus Between Lateral Lobes	Converging	Converging
Shape of Base	Cordate	Truncate
Apex	Mucronate	Mucronate
<u>Growth</u>		
Difference in average length	+5 cm	+10 cm
<u>Response time</u>		
Difference in days of average response	+½	+1½
<u>Response to ALAR</u>		
(g/100 l H <sub>2</sub> O)	300	450
Year of Discovery	1990	1991
<u>CULTIVAR</u>		
	Yellow Reagan	Coral 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	Yellow 9C	Greyed Purple 186A
<u>Bloom</u>		
Size	Medium	Medium
Fully Expanded	6½-7 cm	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	weak to medium	weak to medium
Shoot, Attachment		
Peduncle Lateral	small	small
Shoot, Angle		
Form	Single (Daisy)	Single (Daisy)
Performance	Very good 24-28 days (18-20° C.)	Very good 24-28 days (18-20° C.)

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Detailed Botanical Description and Comparative Data		
Color		
Center of Flower:		
Immature	Yellow-Green 151C	Yellow-Green 151C
Mature	Yellow-Green 154A	Yellow-Green 154A
Base of Petals	Yellow 5C	Greyed-Red 179C but redder
Outer Petals	Yellow 5C	Greyed Red 179C but redder
Inside of Petals	Yellow 5C	Greyed Red 179C but redder
Reverse of Petals	Yellow 4C	Greyed Yellow 162D tinged with Red Purple 71B between ribs and margin
Tonality from Distance	A yellow daisy with a fresh looking center having a little or no pollen	A pale bronze daisy with a fresh looking center having a little or no pollen
Discoloration	Some to yellow 5B	Some to yellow-orange 23C
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	flat, two 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 (1.5 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	Strong	Strong
Height	100-125 cm	100-125 cm
Stem Color	Yellow-Green 146B	Yellow-Green 144A
Stem Strength	Medium	Medium
Stem Brittleness	Absent	Absent
Stem Anthocyanin Coloration	Absent	Present
Internodes	3 cm	3 cm
Flowering Response	7½ weeks	7½ weeks
Foliage		
Color	Upperside green 137A. Underside Green 137C.	Upperside Green 137A. Underside Green 137C.

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Detailed Botanical Description and Comparative Data		
Size	Length ±12 cm.	Length ±12 cm.
	Width ±9 cm.	Width ±9 cm.
Quantity	22-28	22-28
Shape	Lobed	Lobed
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 Between Lateral Lobes	Round	Round
Margin of Sinus Between Lateral Lobes	Parallel	Converging
Shape of Base Apex	Asymmetric Mucronate	Asymmetric Cuspidate
Growth		
Difference in average length	0	-5 cm
Response time		
Difference in days of average response	+1	+1
Response to ALAR		
(g/100 l H <sub>2</sub> O)	280	250
Year of Discovery	1990	1998
CULTIVAR	Bronze Reagan	Salmon 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	Greyed Red 179C	Nearest to Yellow 23D
Bloom		
Size	Medium	Medium
Fully Expanded	6½-7 cm	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	weak	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 151C	Yellow-Green 151C
Mature	Yellow-Green 154A	Yellow-Green 154A

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Detailed Botanical Description and Comparative Data		
Base of Petals	Yellow 8A with an overlay of Greyed Red	Nearest to orange 29C 179B
Outer Petals	Yellow 8A with an overlay of Greyed Red 179B	Nearest to orange 29C
Inside of Petals	Yellow 8A an overlay of Greyed Red 179B	Nearest to orange 29C
Reverse of Petals	Yellow 8C tinged along the center with Greyed Red 179B in a tessellated pattern	Nearest to orange 22D
Tonality from Distance	A pale bronze daisy with a fresh looking center having a little or no pollen	A yellow-orange to orange daisy with a fresh looking center having a little or no pollen
Discoloration	None	None
Pollen	Yellow-Orange 14A	Yellow-Orange 14A
<u>Petals</u>		
Texture	Upperside smooth, underside smooth	Upperside smooth, underside smooth
Number	24-30 (two rows)	24-30 (two rows)
Cross-section	flat, two 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 (1.5 cm)	Medium (1.5 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	Strong	Strong
Height	100-125 cm	100-125 cm
Stem Color	Yellow-Green 144A	Yellow-Green 144A
Stem Strength	Medium	Medium
Stem Brittleness	Absent	Present
Stem Anthocyanin Coloration	Present	Present
Internodes	3 cm	3 cm
Flowering Response	7½ weeks	7½ weeks
<u>Foliage</u>		
Color	Upperside green 137A. Underside Green 137C.	Upperside Green 137A. Underside Green 137C.
Size	Length ±12 cm. Width ±9 cm.	Length ±12 cm. Width ±9 cm.

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Detailed Botanical Description and Comparative Data		
Quantity	22-28	22-28
Shape	Lobed	Lobed
Texture	Upperside rough, underside smooth, slightly hirsute	Upperside rough, underside smooth, slightly hirsute
Ribs and Veins	Ribs well developed. Veins not so developed. Crenated	Ribs well developed. Veins not so developed. Crenated
Edge	Round	Round
Shape of Base of Sinus Between Lateral Lobes	Converging	Parallel
Margin of Sinus Between Lateral Lobes	Asymmetric Cuspidate	Asymmetric Cuspidate
Shape of Base Apex		
Growth		
Difference in average length	0	+10 cm
<u>Response time</u>		
Difference in days of average response	-½	0
<u>Response to ALAR</u>		
(g/100 l H <sub>2</sub> O)	250	450
Year of Discovery	1998	1997
<u>CULTIVAR</u>		
	Sulfur 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	Yellow 10C	Greyed Purple 186D but paler
<u>Bloom</u>		
Size	Medium	Medium
Fully Expanded	7-7½ cm	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 weak to medium	Near the top ±14 cm, near the middle ±24 cm, near the bottom ±28 cm Medium
Peduncle Lateral Shoot, Attachment		
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>		
<u>Center of Flower:</u>		
Immature	Yellow-Green 151C	Yellow-Green 151C
Mature	Yellow-Green 154A	Yellow-Green 154A
Base of Petals	Yellow 6D	Purple 75B
Outer Petals	Yellow 6D	Purple 75B
Inside of Petals	Yellow 6D	Purple 75B
Reverse of Petals	Yellow 6D	Red-Purple 69D but paler

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Detailed Botanical Description and Comparative Data		
Tonality from Distance	A yellow 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	None	Some to Red-Purple 69D
Pollen	Yellow-Orange 14A	Yellow-Orange 14A
<u>Petals</u>		
Texture	Upperside smooth, underside smooth	Upperside smooth, underside smooth
Number	24-30 (two rows)	24-30 (two rows)
Cross-section	flat, two 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 (1.5 cm)	Medium (1.5 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	Strong	Strong
Height	100-125 cm	100-125 cm
Stem Color	nearest Green 143C	Yellow-Green 144A
Stem Strength	Medium to strong	Medium
Stem Brittleness	Absent	Present
Stem Anthocyanin Coloration	Absent	Absent

-continued

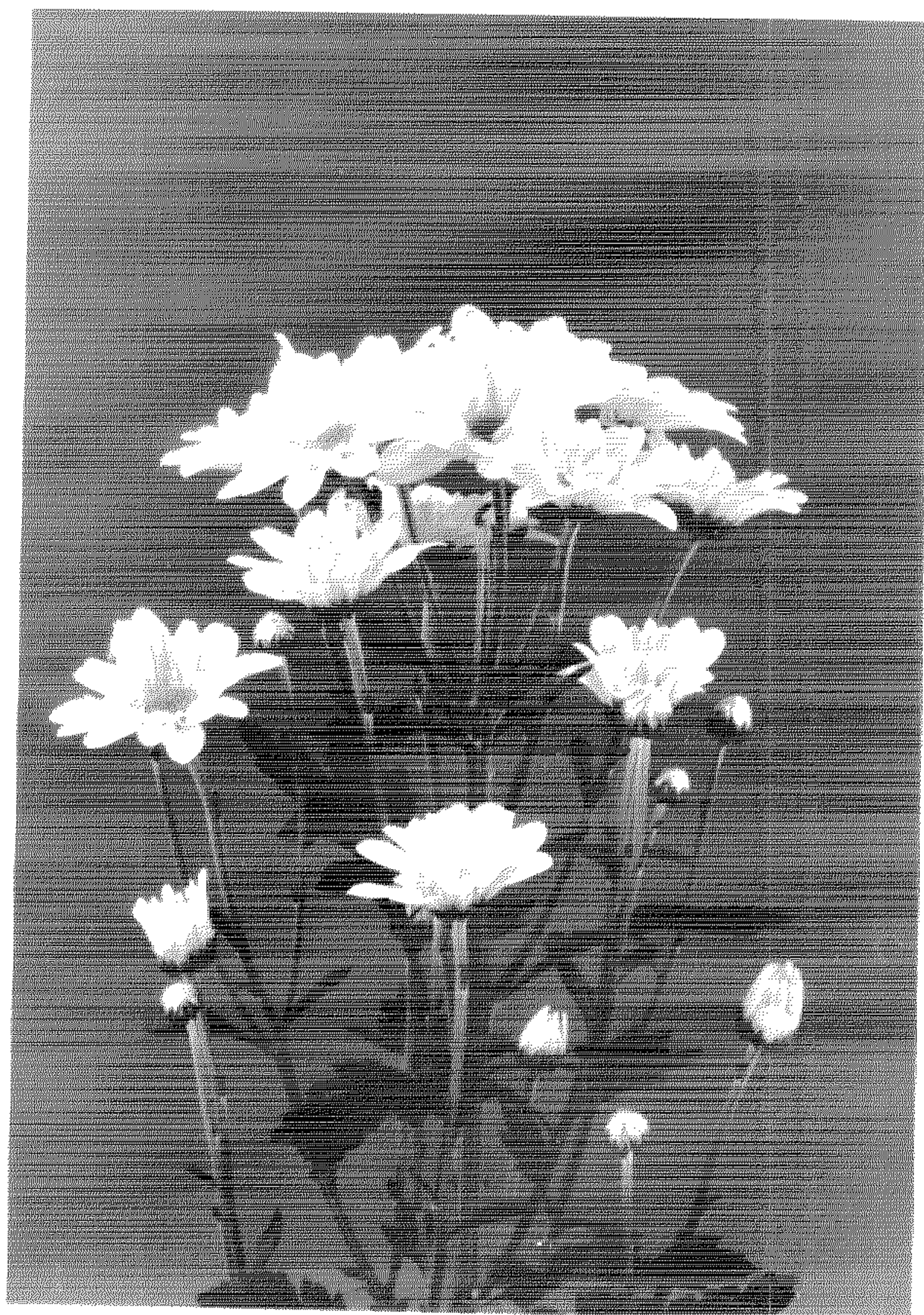
Detailed Botanical Description and Comparative Data		
Internodes	3 cm	3 cm
Flowering Response	7½ weeks	7½ weeks
<u>Foliage</u>		
Color	Upperside Green 137A. Underside Green 137C.	Upperside Green 137A. Underside Green 137C.
Size	Length ±12 cm. Width ±9 cm.	Length ±12 cm. Width ±9 cm.
Quantity	22-28	22-28
Shape	Lobed	Lobed
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 Between Lateral Lobes	Round	Round
Margin of Sinus Between Lateral Lobes	Parallel	Converging
Shape of Base of Apex	Asymmetric	Rounded
Growth	Mucronate	Cuspidate
Difference in average length	+10 cm	0
<u>Response time</u>		
Difference in days of average response	-1	0
<u>Response to ALAR</u>		
(g/100 l H <sub>2</sub> O)	450	300
Year of Discovery	1990	1996

I claim:

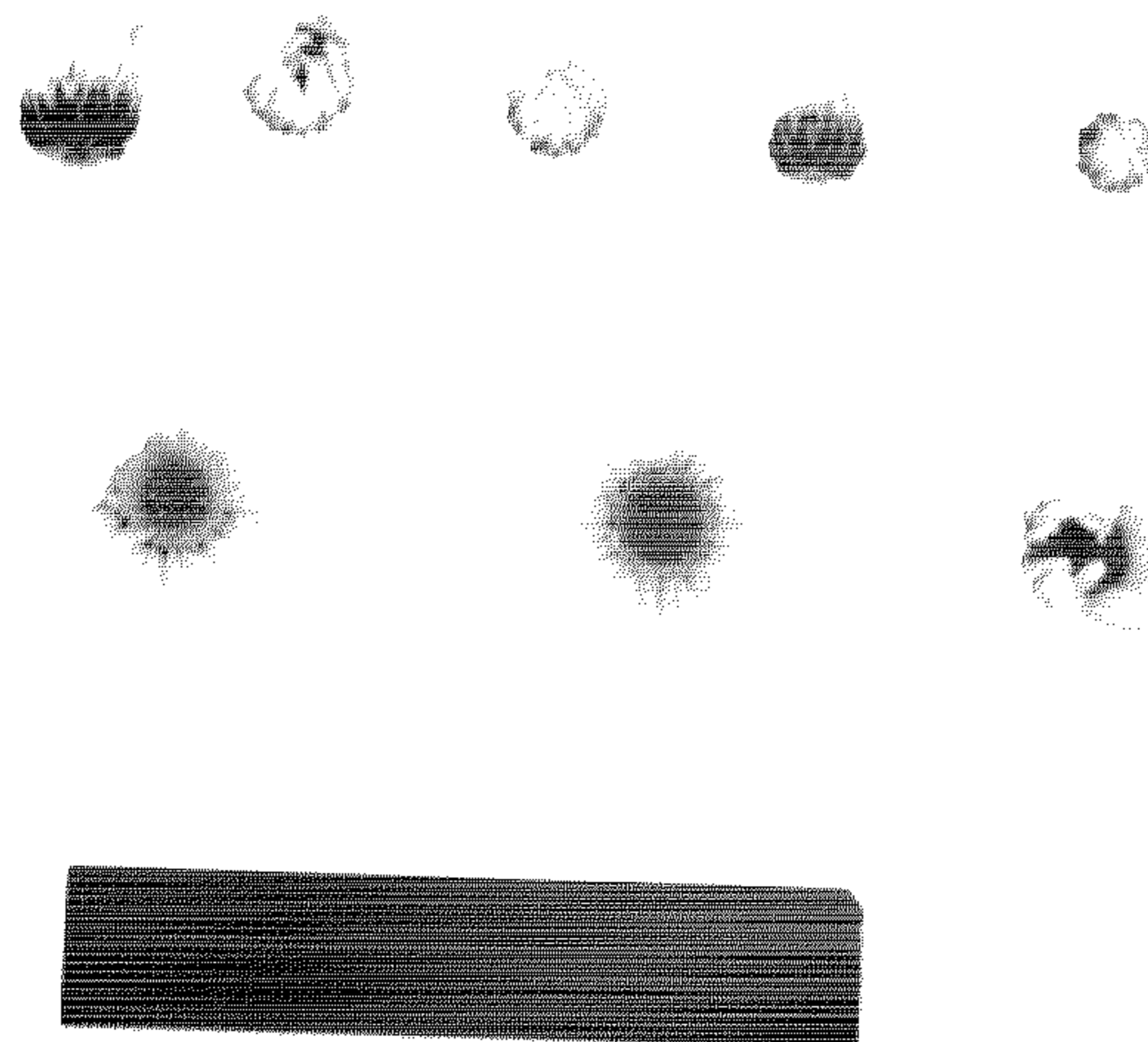
1. A new and distinct variety of Chrysanthemum plant as described and illustrated.

\* \* \* \* \*

*FIG. 1*



*FIG. 2*



*FIG. 3*

