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Noodelijk

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[54] CHRYSANTHEMUM PLANT NAMED 'DARK RED REAGAN'

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[57] ABSTRACT

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

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 1992 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 Splendid Reagan' (copending plant patent application Ser. No. 08/642,224) and 'Sunny Reagan' (copending plant patent application Ser. No. 08/642,904).

The invention has been asexually reproduced by cuttings 15 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 Red 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 Red 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 45 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	Dark Red Reagan	Parent Cultivar Reagan		
Bud				
Size	Medium cross section ±1.0 cm height ±0.7 cm	Medium cross section ±1.0 cm height ±0.7 cm		
Form Outside Color	Round and flat Near Greyed Purple 186A	Round and flat Greyed Purple 186D but paler		
Bloom	F			
Size Fully Expanded Borne	Medium 6½-7 cm Upper portion, single flower per peduncle, lower	Medium 6½-7 cm Upper portion, single flower per peduncle, lower		
Peduncle Lengths	portion plural flowers per peduncle Near the top ±14 cm, near the middle ±24 cm, near the bottom ±28 cm	portion plural flowers per peduncle Near the top ±14 cm, near the middle ±24 cm, near the bottom ±28 cm		
Peduncle Lateral Shoot, Attachment Peduncle Lateral	Weak to medium small	medium medium		
Shoot, Angle				
Form Performance	Single (Daisy) Very good 24–28 days (18–20° C.)	Single (Daisy) Very good 24–28 days (18–20° C.)		
Color				
Center of Flower	Immature: Yellow- Green 144A Mature: Yellow- Green 154A	Immature: Yellow- Green 151C Mature: Yellow- Green 154A		
Base of Petals	Unevenly colored; near Greyed-Red 182A lightly streaked with Greyed-Orange 167B	Purple 75B		
Outer Petals	Unevenly colored; near Greyed-Red 182A lightly streaked with Greyed-Orange	Purple 75B		

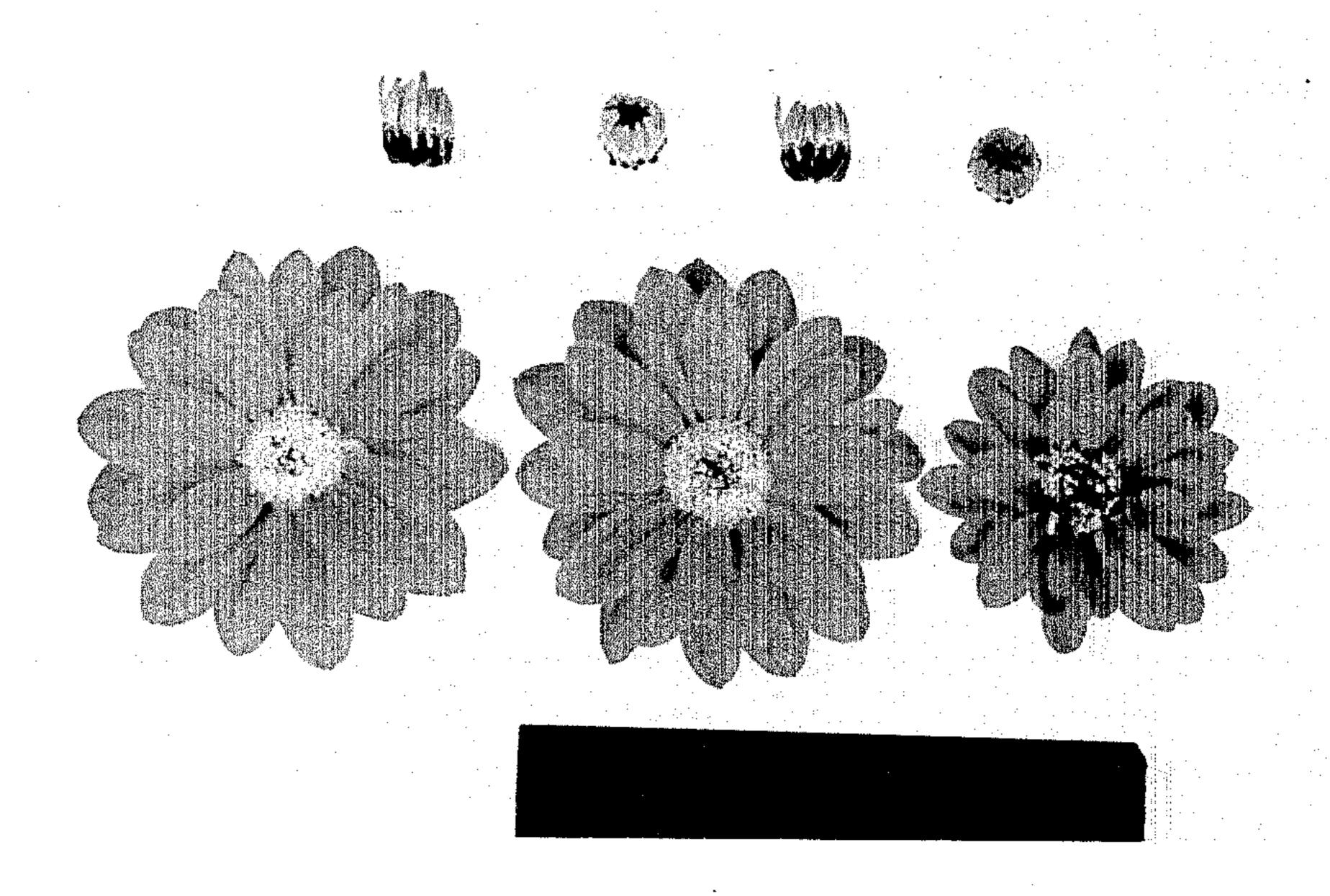
	-continued			-continued	
	167B		Edge	Crenated	Crenated
side of Petals	Unevenly colored;	Purple 75B	Shape of Base of	Round	Round
	near Greyed-Red	_	Sinus Between		
	182A lightly		Lateral Lobes		
	streaked with		Margin of Sinus	Converging	Conversions
	Greyed-Orange		Between Lateral	COUACI SIII S	Converging
	167B				
verse of Petals		D - 4 D1-	Lobes	~ • • •	
verse of Petals	Yellow-White 158A	Red-Purple	Shape of Base	Cordate	Rounded
	tinged with	69D but paler	Apex	Mucronate	Cupsodate
•	Greyed-Purple		Response time		
	186D between the		· · · · · · · · · · · · · · · · · · ·		
	ribs and towards		Difference in days of	+11/2	0
	the margin		average response		
nality from	A red daisy with a	A pale pink daisy	Response to ALAR		
stance	fresh looking center	with a fresh looking	Response to FileRic		
			Dogo setilizad ta	200	200
	having a little	center having a	Dose utilized to	300	300
• .•	or no pollen	little or no pollen	obtain plant height of		
scoloration	Some to Greyed-	Some to Red-	about 90 cm (g/100 l		
	Red 181C	Purple 69D	H ₂ O)		
llen	Yellow-Orange 14A	Yellow-Orange 14A	Year of Discovery	1992	1986
tals	_	_		<u></u>	
				Dark Splendid	
xture	Upperside smooth,	Upperside smooth,	CULTIVAR	Reagan	Summer Dancer
	underside smooth	underside smooth			Sunny Reagan
mber			D., J	· ·· · · · · · · · · · · · · · · · · ·	
	24–30 (two rows)	24–30 (two rows)	Bud		
oss-section	convex, two keels	flat, two keels			
rangement	Imbricated	Imbricated	Size	Medium cross	Medium cross
rsistance	Good. Petals keep	Good. Petals keep		section ±1.0 cm	section ±1.0 cm
	straight or reflex	straight or reflex		height ±0.7 cm	height ±0.7 cm
	somewhat at the	somewhat at the	Form	Round and flat	Round and flat
	edge at the	edge at the	Outside Color	Near Red-	Between Yellow
	end of blooming.	end of blooming.	Carpine Coloi		
orance	•	_	D1	Purple 70A	7A/Yellow 9A
agrance	Typical	Typical	Bloom	Medium	Medium
as Diameter	Chrysanthemum	Chrysanthemum		العداد العالم العالم 	,
sc Diameter	Medium to large	Medium (1.5 cm)	Fully Expanded	6½-7 cm	6½-7 cm
	(1.5-2.0 cm)		Borne	Upper portion,	Upper portion,
productive Organs				single flower per	flower per
				peduncle, lower	peduncle, lower
ımen	Yellow, thick, 3 mm	Yellow, thick, 3 mm			- ·
				portion plural	portion plural
11	in length	in length		flowers per	flowers per
llen	Appears at late	Appears at late		pe duncle	peduncle
_	stage of blooming	stage of blooming	Peduncle Lengths	Near the top ±14	Near the top ±14
yl e s	Green, thick	Green, thick		cm, near the	cm, near the
yle Length	±5 mm	±5 mm		middle ±24, cm,	middle ±24 cm,
igmas	Yellow	Yellow		near the bottom	near the bottom
gma Width	±1 mm	±1 mm		±28 cm	
aries	Enclosed in calyx		Dadamala Taka-al		±28 cm
	raicioscu ili calyx	Enclosed in calyx	Peduncle Lateral	medium	medium
<u>nt</u>			Shoot, Attachment		
	~		Peduncle Lateral	small	medium
rm	Spray mum meant	Spray mum meant	Shoot, Angle		
	for erect culture.	for erect culture.	Form	Single (Daisy)	Single (Daisy)
	Herbaceous.	Herbaceous.	Performance	Very good 24–28	Very good 24–28
wth	Medium	Strong		days (18–20° C.)	· · ·
ight	100–125 cm	100–125 cm	Color	uays (10-20 C.)	(18–20° C.)
m Color	Yellow-Green 144A	Yellow-Green 144A			
				T	• . — ·-·
m Strength	Strong	Medium		Immature: Yellow-	Immature: Yellow
m Brittleness	Absent	Present		Green 144A	Green 144A
m Anthocyanin	Present, at the base	Absent		Mature: Yellow-	Mature: Yellow-
-		•		Green 154A	Green 154A
-	and along the ribs				Yellow 5A deep-
loration	•	3 cm	Base of Petals	Near Red Dimble	TAG (1677)
loration ernodes	and along the ribs 3 cm	3 cm 7½ weeks	Base of Petals	Near Red-Purple	•
loration ernodes wering Response	and along the ribs	3 cm 7½ weeks	Base of Petals	71C but very	ening slightly to
loration ernodes	and along the ribs 3 cm		Base of Petals	-	ening slightly to Yellow 6A in the
loration ernodes wering Response iage	and along the ribs 3 cm 7½ weeks	7½ weeks		71C but very slightly more blue	ening slightly to Yellow 6A in the basal half
loration ernodes wering Response iage	and along the ribs 3 cm 7½ weeks Upperside Green	7½ weeks Upperside Green	Base of Petals Outer Petals	71C but very slightly more blue Near Red-Purple	ening slightly to Yellow 6A in the
loration ernodes wering Response iage	and along the ribs 3 cm 7½ weeks	7½ weeks Upperside Green		71C but very slightly more blue	ening slightly to Yellow 6A in the basal half
oration ernodes wering Response iage	and along the ribs 3 cm 7½ weeks Upperside Green	7½ weeks Upperside Green		71C but very slightly more blue Near Red-Purple 71C but very	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to
oration ernodes wering Response iage	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green	7½ weeks Upperside Green 137A. Underside Green		71C but very slightly more blue Near Red-Purple	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the
ernodes wering Response iage or	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C.	7½ weeks Upperside Green 137A. Underside Green 137C.	Outer Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half
ernodes wering Response iage	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm.	7½ weeks Upperside Green 137A. Underside Green 137C. Length ±12 cm.		71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep-
cration ernodes wering Response iage	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm.	7½ weeks Upperside Green 137A. Underside Green 137C.	Outer Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half
ernodes wering Response iage	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm.	7½ weeks Upperside Green 137A. Underside Green 137C. Length ±12 cm.	Outer Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to
ernodes wering Response iage lor	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22-28	7½ weeks Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22-28	Outer Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A deep- ening slightly to Yellow 6A in
ernodes wering Response iage lor	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22-28 Lobed, see	7½ weeks Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22–28 Lobed, see	Outer Petals Inside of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A deep- ening slightly to Yellow 6A in the basal half
ernodes wering Response iage lor e antity ape	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22–28 Lobed, see photograph	7½ weeks Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22–28 Lobed, see photograph	Outer Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A deep- ening slightly to Yellow 6A in
ernodes wering Response iage or	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough,	7½ weeks Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough,	Outer Petals Inside of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A deep- ening slightly to Yellow 6A in the basal half
ernodes wering Response lage or	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22–28 Lobed, see photograph	7½ weeks Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22–28 Lobed, see photograph	Outer Petals Inside of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Nearest Purple-Violet 80D but	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A deep- ening slightly to Yellow 6A in the basal half
ernodes wering Response lage or	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough, underside smooth,	Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough, underside smooth,	Outer Petals Inside of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Nearest Purple-Violet 80D but more grey and	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A deep- ening slightly to Yellow 6A in the basal half
oration modes wering Response lage or thirty pe	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute	Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute	Outer Petals Inside of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Nearest Purple-Violet 80D but more grey and with a slightly	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A deep- ening slightly to Yellow 6A in the basal half
oration modes wering Response lage or antity pe ture	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22-28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute Ribs well	Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22-28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute Ribs well	Outer Petals Inside of Petals Reverse of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Nearest Purple-Violet 80D but more grey and with a slightly deeper tonation	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 6A
ernodes wering Response iage or entity pe ture	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute Ribs well developed.	Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22–28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute Ribs well developed.	Outer Petals Inside of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Nearest Purple-Violet 80D but more grey and with a slightly	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 6A Yellow 6A
loration ernodes wering Response	and along the ribs 3 cm 7½ weeks Upperside Green 137A. Underside Green 137C. Length ±11 cm. Width ±9 cm. 22-28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute Ribs well	Upperside Green 137A. Underside Green 137C. Length ±12 cm. Width ±9 cm. 22-28 Lobed, see photograph Upperside rough, underside smooth, slightly hirsute Ribs well	Outer Petals Inside of Petals Reverse of Petals	71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Near Red-Purple 71C but very slightly more blue Nearest Purple-Violet 80D but more grey and with a slightly deeper tonation	ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 6A in the basal half Yellow 5A deep- ening slightly to Yellow 5A in the basal half

-continued		-continued				
	little or no pollen	little or no pollen	Foliage			
Discoloration	Some to Red- Purple 72C	Some to Yellow 5B	Color	Upperside Green. 137A.	Upperside Green 137A.	
Pollen	Yellow-Orange 14A	Yellow-Orange 14A		Underside Green	Underside Green	
Petals				137C.	137C.	
<u>· </u>			Size	Length ±11 cm.	Length ±12 cm.	
Texture Upperside sm	Upperside smooth,	Upperside smooth,		Width ±9 cm.		
	underside smooth	underside smooth	Width ±9 cm.			
Number	24-30 (two rows)	24-30 (two rows)	Quantity	22-28	22-28	
Cross-section	convex, no keels	convex, two keels	Shape	Lobed, see	Lobes, see	
Arrangement	Imbricated	Imbricated	_	photograph	photograph	
Persistence	Good. Petals keep	Good. Petals keep	Texture	Upperside rough,	Upperside rough,	
stra	straight or	straight or		underside smooth,	underside smooth,	
	reflex somewhat at	reflex somewhat at		slightly hirsute.	slightly hirsute.	
	the edge at the	the edge at the	Ribs and Veins	Ribs well	Ribs well	
	end of blooming.	the end of blooming.		developed.	developed.	
Fragrance Typical Chrysanthemum	Typical	Typical		Veins not so	Veins not so	
	Chrysanthemum	Chrysanthemum		developed.	developed.	
Disc Diameter Medium to large	Medium to large	Medium to large	Edge	Crenated	Crenated	
	(1.5-2.0 cm)	(1.5-2.0 cm)	Shape of Base of	Round	Round	
	•	•	Sinus Between			
Danashyatina Organa			Lateral Lobes			
Reproductive Organs	-		Margin of Sinus	Converging	Converging	
Stamen	Yellow, thick, 3 mm	Yellow, thick, 3 mm	Between Lateral			
	in length	in length	Lobes			
Pollen	Appears at late	Appears at late	Shape of Base	Cordate	Truncate	
	stage of blooming	stage of blooming	Apex	Mucronate	Mucronate	
Styles	Green, thick	Green, thick	Response time			
Style Length	±5 mm	±5 mm				
Stigmas	Yellow	Yellow	Difference in days of	+1	+11/2	
Stigma Width	±1 mm	±1 mm	average response			
Ovaries	Enclosed in calyx	Enclosed in calyx	Response to ALAR			
Plant						
			Dose utilized to	300	450	
Form	Spray mum meant	Spray mum meant	obtain plant height of			
	for erect culture.	for erect culture.	about 90 cm (g/100 l			
	Herbaceous.	Herbaceous.	H_2O)			
Growth	Medium	Strong	Year of Discovery	1991	1991	
Height	100-125 cm	100–125 cm				
Stem Color	Yellow-Green 144A	Yellow-Green 144A				
Stem Strength	Strong	Strong	Talaim			
Stem Brittleness	Absent	Absent	I claim:	_		
Stem Anthocyanin	Present, at the base	Present, mainly at	1. A new and dis	stinct variety of Chi	rysanthemum plant a	
Coloration	and along the ribs	the base	described and illustrated.			
Internodes	3 cm	3 cm				
Flowering Response	7½ weeks	7½ weeks		* * * *		
- -				•		

FIG. 1



FiG. 2



F/G. 3

