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## United States Patent [19]

### Noodelijk

CHRYSANTHEMUM PLANT NAMED [54] 'SPLENDID REAGAN'

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[73]

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[57] **ABSTRACT** 

A new and distinct cultivar of Chrysanthemum plant named Splendid Reagan, bearing small to medium sized purple blooms with a green center and performance of 24-28 days.

2 Drawing Sheets

The cultivar 'Splendid 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. 15 No. 08/646,224); and

'Cream Reagan' (U.S. Plant patent application Ser. No. 08/738.606).

#### 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. 25 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 <sup>30</sup> asexual propagations.

#### SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of 35 Chrysanthemum of a small to 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.

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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 small to medium sized purple blooms with a 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 The R.H.S. Colour 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		
CULTTVAR	Splendid Reagan	Dark Splendid Reagan
Bud		
Size	Medium	Medium
	cross section ±1.0 cm	cross section ±1.0 cm
	height ±0.7 cm	height ±0.7 cm
Form	Round and flat	Round and flat
Outside Color Bloom	Near Red-Purple 70A	Near Red-Purple 70A
Size	Small to Medium	Medium
Fully Expanded	6-6½ cm	6½-7 cm
Borne	Upper portion, single	Upper portion, single
	flower per peduncle,	flower per peduncle,
	lower portion plural	lower portion plural
	flowers per peduncle	flowers per peduncle
Peduncle Lengths	Near the top ±14 cm, near the middle	Near the top $\pm 14$ cm, near the middle $\pm 24$ cm,
	±24 cm, near the bottom	near the bottom ±28 cm
	±28 cm	
Peduncle Lateral Shoot, Attachment	Medium	medium
Peduncle Lateral	Medium	small
Shoot, Angle		
Form	Single (Daisy)	Single (Daisy)
Performance	Very good 24-28 days	Very good 24-28 days
	(18-20° C.)	(19-20° C.)
Color		

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Detailed Bo	tanical Description and C	omparative Data	Detailed Bo	otanical Description and C	Comparative Data
Center of Flower				underside smooth,	underside smooth,
· · · · · · · · · · · · · · · · · · ·				slightly hirsute	slightly hirsute
Mature	Yellow-Green 143B	Yellow-Green 144A	Ribs and Veins	Ribs well developed.	Ribs well developed.
mmature	Yellow-Green 144C	Yellow-Green 154A		Veins not so	Veins not so
Base of Petals	Near Purple-Violet	Near Red-Purple 71C		developed	developed.
	80D but slightly	but very slightly	Edge	Crenated	Crenated
	more red	more blue	Shape of Base of	Round	Round
Outer Petals	Near Purple-Violet	Near Red-Purple 71C	Sinus Between		
	80D but slightly	but very slightly	Lateral Lobes		
	more red	more blue	Margin of Sinus	Converging	Converging
Inside of Petals	Near Purple-Violet	Near Red-Purple 71C	Between		
Histor of Lotters	80D but slightly	but bery slightly	Lateral Lobes		
	more red	more blue	Shape of Base	Truncate	Cordate
Reverse of Petals	Near Purple 75D	Nearest Purple-Violet	Арех	Mucronate	Mucronate
ROTOISO OI I DIMIS	but slightly deeper	80D but more grey	Growth		
	out sugarity deeper	and with a slightly			
		deeper tesselation	Difference in	0	0
Tonality from	A purple daisy with	A purple daisy with	average length		_
<b>-</b>	a fresh looking center	a fresh looking center	Response time		
Distance			response time		
	having a little or	having a little or	Difference in James	4 <b>9</b>	. 14
	no pollen	no pollen	Difference in days	+1	+1/2
Discoloration	to Purple 75C	Some to Red-Purple	of average response		
	wy 48	72C	Response to ALAR		
Pollen	Yellow-Orange 14A	Yellow-Orange 14A	/ /* ** * * * * * * * * * * * * * * * *	200	200
Petals			$(g/100 \text{ l H}_2\text{O})$	300	300
			Year of Discovery	1990	1991
Texture	Upperside smooth,	Upperside smooth,			
	underside smooth	underside smooth	CULTIVAR	Dark Reagan	Dark Red Reagan
Number	24-30 (two rows)	24-30 (two rows)			
Cross-section	Convex (no keels)	flat, no keels	Bud		
Arrangement	Imbricated	Imbricated			
Persistence	Good. Petals keep	Good. Petals keep	Size	Medium	Medium
	straight or reflex	straight or reflex		cross section ±1.0 cm	cross section ±1.0 cm
	somewhat at the	somewhat at the		height $\pm 0.7$ cm	height ±0.7 cm
	edge at the	edge at the	Form	Round and flat	Round and flat
	end of blooming.	end of blooming.	Outside Color	Between Greyed	Near Greyed Purple
Fragrance	Typical	Typical		Purple 186A and B	186A
	Chrysanthemum	Chrysanthemum	Bloom	_	
Disc Diameter	Medium to large	Medium to large	<del></del>		
<b>_</b>	(1.5-2.0  cm)	(1.5-2.0  cm)	Size	Medium	Medium
Reproductive	<b>(</b>		Fully Expanded	6-6½ cm	$6\frac{1}{2}$ -7 cm
Organs			Borne	Upper portion, single	Upper portion, single
<u> </u>				flower per peduncle,	flower per peduncle,
Stamen	Yellow, thick,	Yellow, thick,		lower portion plural	lower portion plural
	3 mm in length	3 mm in length		flowers per peduncle	flowers per peduncle
Poli <b>e</b> n	Appears at late	Appears at late	Peduncle Lengths	Near the top ±14 cm,	Near the top ±14 cm,
1 011011	stage of blooming	stage of blooming		near the middle	near the middle ±24 cm,
Styles	Green, thick	Green, thick		±24 cm.	near the bottom ±28 cm
Style Length	±5 mm	±5 mm		near the bottom	
•		Yellow		±28 cm	
Stigmas Stigma Width	Yellow ±1 mm	±1 mm	Peduncle Lateral	Medium	Weak to medium
<del>-</del>	Enclosed in calyx	Enclosed in calyx	Shoot, Attachment	MCMMI	West to modified
Ovaries Diame	Eliciosed III calyx	Faictosed in Caryx	Peduncle Lateral	Medium	smali
Plant				Medium	SHEAT
C	C	C	Shoot, Angle	Single (Daire)	Single (Daims)
Form	Spray mum meant for	Spray mum meant for	Form Performance	Single (Daisy) Very good 24-30 days	Single (Daisy) Very good 24-28 days
	erect culture.	erect culture.	Performance	Very good 24–30 days	
<b>~</b> 1	Herbaceous.	Herbaceous.	O-1	(18–20° C.)	(18–20° C.)
Growth	Medium	Medium	Color Contan of Florusa		
Height	100–125 cm	100–125 cm	Center of Flower		
Stem Color	Near Yellow-Green	Yellow-Green 144A			
	146C	_	Mature	Yellow-Green 151C	Yellow-Green 144A
Stem Strength	Medium	Strong	Immature	Yellow-Green 154A	Yellow-Green 154A
Stem Brittleness	Absent	Absent	Base of Petals		Unevenly colored; near
Stem Anthocyanin	Present	Present, at the base		overlaid with Red-	Greyed-Red 182A
Coloration		and along the ribs		Purple 72A giving an	lightly streaked with
Internodes	3-31/2 cm	3 cm		overall impression of	Greyed-Orange 167B
Flowering Response	7½ weeks	7½ weeks		purple 75Å but pinker	_
Foliage			Outer Petals	-	Unevenly colored; near
			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	overlaid with Red-	Greyed-Red 182A
Color	Umpercide mean 147 A	Upperside Green 137A.		Purple 72A giving an	lightly streaked with
COIOI	••			<b>,</b>	
	Underside Green	Underside Green 137C.		overall impression of	Greyed-Orange 167B
	147B.			purple 75A but pinker	
Size	Length ±11 cm.	Length ±11 cm.	Inside of Petals	- · · · · · · · · · · · · · · · · · · ·	Unevenly colored; near
	Width ±9 cm.	Width ±9 cm.		overlaid with Red-	Greyed-Red 182A
	22-28	22-28		Purple 72A giving an	lightly streaked with
Quantity	22 24				
Quantity Shape	Lobed	Lobed		overall impression of	Greyed-Orange 167B
Quantity Shape Texture		Lobed Upperside rough,		overall impression of purple 75A but pinker	Greyed-Orange 167B

starce of Dotale	Pad Duenia 600	Vellow White 150 A	Lateral Lakes		
verse of Petals	Red-Purple 69C with a light	Yellow-White 158A tinged with Greyed-	Lateral Lobes Shape of Base	Asymmetric	Cordate
	tesselation of Red-	Purple 186D between	. •	Mucronate	Mucronate
		the ribs and towards	Apex	TATOMINITATE	MIGGIOHAIC
	Purple 72A		Growth		
nality from	A note bronze dajev	the margin A red daisy with	Difference in	0	0
nality from	A pale bronze daisy	-		Ų	U
stance	with a fresh looking	a fresh looking center	average length		
	center having a little or	T.	Response time		
1	no pollen	no pollen	TD::00:	. 1	. 14
scoloration	Some to Red-Purple	Some to Greyed-Red	Difference in days	+1	+3/2
44	69C	181C	of average response		
llen	Yellow-Orange 14A	Yellow-Orange 14A	Response to ALAR		
tals			(~/100 t II O)	300	200
	77	TT	$(g/100 \text{ I H}_2\text{O})$	300 1000	300 1002
xture	Upperside smooth,	Upperside smooth,	Year of Discovery	1990	1992
•	underside smooth	underside smooth	<del>{</del>		
ımber	24–30 (two rows)	24–30 (two rows)	AND THE PROPERTY A. W.	Parent	
ess-section	flat, (two keels)	convex, two keels	CULITVAR	Cultivar Reagan	
angement	Imbricated	Imbricated			<u> </u>
istence	Good. Petals keep	Good. Petals keep	Bud		
	straight or reflex	straight or reflex			
	somewhat at the	somewhat at the	Size	Medium	
	edge at the	edge at the		cross section ±1.0 cm	
	end of blooming.	end of blooming.		height ±0.7 cm	
grance	Typical	Typical	Form	Round and flat	
51 airc		T. T.	Outside Color	Near Greyed Purple	
Ni	Chrysanthemum	Chrysanthemum	Ouiside Color	*	
Diameter	Medium	Medium to large	<b>5</b> 1_	186A	
1	(1.5 cm)	(1.5-2.0  cm)	Bloom		
roductive			, m. •	3.6 *	
ans			Size	Medium	
			Fully Expanded	6½-7 cm	
nen	Yellow, thick,	Yellow, thick,	Borne	Upper portion, single	
	3 mm in length	3 mm in length		flower per peduncle,	
n en	Appears at a late	Appears at late		lower portion plural	
	stage of blooming,	stage of blooming		flowers per peduncle	
	yellow-orange in color		Peduncle Lengths	Near the top ±14 cm,	
<b>~</b> c	•	Green think	I COMPANY INTERIOR	near the middle	
es - T4b	Green, thick	Green, thick			
e Length	±5 mm	±5 mm		±24 cm,	
mas	Yellow	Yellow		near the bottom	
ma Width	±1 mm	±1 mm		±28 cm	
ries	Enclosed in calyx	Enclosed in calyx	Peduncle Lateral	Medium	
t	-	-	Shoot, Attachment		
			Peduncle Lateral	Medium	
n.	Spray mum meant for	Spray mum meant for	Shoot, Angle		
	erect culture.	erect culture.	Form	Single (Daisy)	
	Herbaceous.	Herbaceous.	Performance	Very good 24-28 days	
<b>zth</b>	Strong	Medium		(18–20° C.)	
	100–125 cm	100–125 cm	Color	120 20 0.,	
ht Color					
n Color	Yellow-Green	Yellow-Green 144A	Center of Flower		
_ 041	144A	Ctean -	<b>1</b>	Waller Correct 1510	
n Strength	Medium	Strong	Mature	Yellow-Green 151C	
m Brittleness	Present	Absent	Immature	Yellow-Green 154A	
n Anthocyanin	Present	Present, at the base	Base of Petals	Purple 75B	
ration		and along the ribs	Outer Petals	Purple 75B	
modes	3 cm	3 cm	Inside of Petals	Purple 75B	
ering Response	7⅓ weeks	7½ weeks	Reverse of Petals	Red-Purple 69D	
ge				but paler	
<del>-</del>			Tonality from	A pale pink daisy	
	Upperside green 137A	Upperside Green 137B.	Distance	with a fresh fresh	
	Underside Green	Underside Green 137C.		looking center having	
		CIRCLESIA CIUCII IDIC.			
	137C.	Tamadh 111		a little or	
	Length ±12 cm.	Length ±11 cm.	was a ca	no pollen	
	Width ±9 cm.	Width ±9 cm.	Discoloration	Some to Red-Purple	
ity	22–28	22-28		69D	
•	Lobed	Lobed	Pollen	Yellow-Orange 14A	
<b>'e</b>	Upperside rough,	Upperside rough,	Petals		
	underside smooth,	underside smooth,			
	•	•	Tr	# T	
	slightly hirsute	slightly hirsute	Texture	Upperside smooth,	
and Veins	Ribs well developed.	Ribs well developed.		underside smooth	
	Veins not so	Veins not so	Number	24-30 (two rows)	
	developed.	developed.	Cross-section	flat, (two keels)	
<b>.</b>	Crenated	Crenated	Arrangement	Imbricated	
_					
pe of Base of	Round	Round	Persistence	Good. Petals keep	
				straight or reflex	
s Between				-	
				somewhat at the	
Between	Converging	Converging		somewhat at the edge at the	

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Detailed Bo	otanical Description and Comparative Data
	Width ±9 cm.
Quantity	22–28
Shape	Lobed
Texture	Upperside rough,
	underside smooth,
	slightly hirsute
Ribs and Veins	Ribs well developed.
	Veins not so
	developed.
Edge	Crenated
Shape of Base of	Round
Sinus Between	
Lateral Lobes	
Margin of Sinus	Converging
Between	
Lateral Lobes	
Shape of Base	Rounded
Apex	Cuspidate
Growth	
Difference in	0
average length	
Response time	
Difference in days	+0
of average response	
Response to ALAR	
(g/100 l H <sub>2</sub> O)	300
Year of Discovery	1986
-	

#### I claim:

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

Detailed Be	otanical Description and Comparative Data
Fragrance	Typical
	Chrysanthemum
Disc Diameter	Medium
	(1.5 cm)
Reproductive	
Organs	
Stamen	Yellow, thick,
	3 mm in length
Pollen	Appears at late
	stage of blooming
Styles	Green, thick
Style Length	±5 mm
Stigmas	Yellow
Stigma Width	±1 mm
Ovaries	Enclosed in calyx
Plant	
Form	Spray mum meant for
	erect culture.
	Herbaceous.
Growth	Strong
Height	100-125 cm
Stem Color	Yellow-Green
	144A
Stem Strength	Medium
Stem Brittleness	Present
Stem Anthocyanin	Absent
Coloration	
Internodes	3 cm
Flowering Response	7½ weeks
Foliage	
Color	Upperside green 137A.
	Underside Green 137C.

Length ±12 cm.

Size





