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United States Patent

Noodelijk

CHRYSANTHEMUM PLANT NAMED [54] 'CREAM REAGAN'

[76] Inventor: Robert Noodelijk, Vrouwgeestweg 26,

2481 KN Woubrugge, Netherlands

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Primary Examiner—Howard J. Locker Attorney, Agent, or Firm—Parkhurst, Wendel & Burr, L.L.P.

Plant 10,209

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ABSTRACT [57]

Patent Number:

Date of Patent:

[45]

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

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. 15 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. 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 30 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.

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.

ULTIVAR	Cream Reagan	Sunny Reagan
Bud		
ize	Medium	Medium
	cross section	cross section
	± 1.0 cm	± 1.0 cm
	height ±0.7 cm	height ±0.7 cm
orm	Round and flat	Round and flat
outside Color	Near Yellow 8A	Between Yellow
		7A/Yellow 9A
Bloom		
Size	Small to Medium	Medium
ully Expanded	6-61/2 cm	6 1/2 −7 cm
Borne	Upper portion	Upper portion,
	single flower per	single flower per
	peduncle lower	peduncle, lower
	portion plural flo-	portion plural
	wers per peduncle	flowers per pe-
		duncle
eduncle Lengths	Near the top ±14	Near the top ± 14
	cm, near the	cm, near the
	middle ±24 cm	middle ±24 cm,
	near the bottom	near the bottom
	±28 cm	±28 cm
eduncle Lateral hoot, Attachment	Medium	medium
eduncie Lateral Shoot, Angle	Medium	medium
form	Single (Daisy)	Single (Daisy)
erformance	Very good 24-28	Very good 24-28
	days (18-20° C.)	days (18-20° C.)

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···	otanical Description and			otanical Description and	
lor nter of Flower:			Foliage		
mature	Yellow-Green	Yellow-Green	Color	Upperside green	Upperside Gree
	143 B	151C		137A. Underside	137A. Undersid
iture	Yellow-Green	Yellow-Green	C:	Green 137C.	Green 137C.
	154A	154A	Size	Length ±12 cm.	Length ±12 cm
se of Petals	Nearest Yellow 4C	Yellow 5A dee-	O	Width ±10 cm.	Width ±9 cm.
		pening slightly	Quantity	22–28 Tabadasa	22-28 Labor
		to Yellow 6A in	Shape	Lobed, see	Lobed
		the basal half	T	photograph	TIido
ter Petals	Nearest Yellow 4C	Yellow 5A dee-	Texture	Upperside rough,	Upperside roug underside
		pening slightly		underside smooth,	
		to Yellow 6A in		slightly hirsute	smooth, slightly hirsute
* * * * * * * * * * * * * * * * * * * *	NT . 57 11 467	the basal half	Ribs and Veins	Ribs well develo-	Ribs well deve
ide of Petals	Nearest Yellow 4C	Yellow 5A dee-	KIDS MIN ACHE	ped. Veins not so	loped. Veins no
		pening slightly		*	•
		to Yellow 6A in	TO Jan	developed.	so developed.
-		the basal half	Edge Shows of Door of	Crenated	Crenated
erse of Petals	Nearest Yellow 4C	Yellow 6A	Shape of Base of	Round	Round
ality from	A pale yellow	A yellow daisy	Sinus Between		
stance	daisy with a fresh	with a fresh	Lateral Lobes	^	O
	looking center ha-	looking center	Margin of Sinus	Converging	Converging
	ving a little or no	having a little or	Between Lateral		
	pollen	no polien	Lobes	د ـ الـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	78*
coloration	None	Some to Yellow	Shape of Base	Cordate	Truncate
		5 B	Apex	Mucronate	Mucronate
en	Yellow-Orange	Yellow-Orange	Growth		
_	14A	14A	Total	4 6	. 10
als_			Difference in ave-	+5 cm	+10 cm
			rage length		
ture	Upperside smooth,	Upperside	Response time		
	underside smooth	smooth, undersi-			
		de smooth	Difference in days	+1/2	+11/2
nber	24-30 (two rows)	24-30 (two rows)	of average response		
s-section	Convex (no keels)	convex, two	Response to ALAR		
		keels		8.00	450
ngement	Imbricated	Imbricated	(g/100 l	300	45 0
stence	Good. Petals keep	Good. Petals	H ₂ O)		
	straight or reflex	keep straight or	Year of Discovery	1990	1 99 1
	somewhat at the	reflex somewhat			~ -
	edge at the end of	at the edge at the	CULTIVAR	Yellow Reagan	Coral Reagan
	blooming.	end of blooming.			
grance	Typical Chrysan-	Typical Chrysan-	Bud		
	themum	themum			
c Diameter	Medium to large	Medium to large	Size	Medium	Medium
	(1.5-2.0 cm)	(1.5-2.0 cm)		cross section	cross section
productive				±1.0 cm	±1.0 cm
ans				height ±0.7 cm	height ±0.7 cm
			Form	Round and flat	Round and flat
men	Yellow, thick, 3	Yellow, thick,	Outside Color	Yellow 9C	Greyed Purple
	mm in length	3 mm in length			186A
len	Appears at late	Appears at late	Bloom		
	stage of blooming	stage of blooming			
les	Green, thick	Green, thick	Size	Medium	Medium
le Length	±5 mm	±5 mm	Fully Expanded	6½-7 cm	6½-7 cm
gmas	Yellow	Yellow	Borne	Upper portion	Upper portion,
zma Width	±1 mm	±1 mm		single flower per	single flower p
aries	Enclosed in calyx	Enclosed in calyx		peduncle, lower	peduncle, lowe
nt				portion plural	portion plural
				flowers per pe-	flowers per pe-
n	Spray mum meant	Spray mum meant		duncle	duncle
	for erect culture.	for erect culture.	Peduncle Lengths	Near the top ±14	Near the top ±
	Herbaceous.	Herbaceous.		cm, near the	cm, near the
rest L	•			middle ±24 cm	middle ±24 cm
wth	Medium to tall	Strong		near the bottom	near the bottor
ght n. Colon	100–125 cm	100–125 cm Valleys Green		±28 cm	±28 cm
m Color	Yellow-Green	Yellow-Green	Dadonala I atau-l		
<u>.</u> -	143C	144A	Peduncle Lateral	weak to medium	weak to mediu
m Strength	Medium	Strong	Shoot, Attachment	11	11
m Brittleness	Absent	Absent	Peduncle Lateral	small	small
	Absent	Present, mainly	Shoot, Angle		-
n Anthocyanin	11000111	• -		ar I as 1 \	CT 1 /11% * 1
-	1100011	at the base	Form	Single (Daisy)	• • • • • • • • • • • • • • • • • • • •
Anthocyanin ration nodes	3-3½ cm	at the base 3 cm	Form Performance	Single (Daisy) Very good 24–28	Single (Daisy) Very good 24–

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	Botanical Description and	a Comparative Data	Detailed E	Botanical Description and	1 Comparative Data
lor nter of Flower:			Size	Length ±12 cm. Width ±9 cm.	Length ±12 cm. Width ±9 cm.
			Quantity	22-28	22-28
nature	Yellow-Green	Yellow-Green	Shape	Lobed	Lobed
-	151C	151C	Texture	Upperside rough,	Upperside rough
ure	Yellow-Green	Yellow-Green		underside smooth,	underside
e of Petals	154A Vallery 5C	154A		slightly hirsute	smooth, slightly
e of Petais	Yellow 5C	Greyed-Red	Dibe and Wiles	Dika mali dana	hirsute
ter Petals	Yellow 5C	179C but redder	Ribs and Veins	Ribs well deve-	Ribs well deve-
el Pelais	ienow jc	Greyed Red		loped. Veins not	loped. Veins not
de of Petals	Yellow 5C	179C but redder	Trabas	so developed.	so developed.
de of Leigns	ICHOW JC	Greyed Red 179C but redder	Edge	Crenated	Crenated
erse of Petals	Yellow 4C		Shape of Base of	Round	Round
cise of retais	ICIOW 4C	Greyed Yellow	Sinus Between		
		162D tinged with	Lateral Lobes		
		Red Purple 71B between ribs and	Margin of Sinus	Parallel	Converging
			Between Lateral		
ality from	A yellow daisy	margin A pale bronze	Lobes		
anty nom	with a fresh	daisy with a	Shape of Base	Asymmetric	Asymmetric
Samily of after Annual Control of the Control of th	looking center	fresh looking	Арех	Mucronate	Cuspidate
	having a little or	center having a	Growth		
	no pollen	little or no pollen			
coloration	Some to yellow	Some to yellow-	Difference in ave-	0	−5 cm
J.V. WLIVII	5B	orange 23C	rage length		
en	Yellow-Orange	Yellow-Orange	Response time		
	14A	14A	<u> </u>		
ls	A-TEB	A-74-1	Difference in days	+1	+1
P			of average response	я - 🛋	, .
ture	Upperside	Upperside	Response to ALAR		
	smooth, undersi-	smooth, undersi-	Kesponse to ALAK		
	de smooth	de smooth	/ _~ /100 1	വരവ	250
ber	24-30 (two rows)	24-30 (two rows)	(g/100 l	280	250
s-section	flat, two keels	flat, two keels	H ₂ O)	1000	1000
ngement	Imbricated	Imbricated	Year of Discovery	1990	1 99 8
stence	Good. Petals keep	Good. Petals	∠18 18 (8183 74 %)	T>	
	straight or reflex	keep straight or	CULTIVAR	Bronze Reagan	Salmon Reagan
	somewhat at the	reflex somewhat			
	edge at the end of	at the edge at the	Bud		
	blooming.	end of blooming.		-	
rance	Typical Chrysan-	Typical Chrysan-	Size	Medium	Medium
	themum	themum		cross section	cross section
Diameter	Medium	Medium		±1.0 cm	±1.0 cm
	(1.5 cm)	(1.5 cm)		height ±0.7 cm	height ±0.7 cm
roductive	•		Form	Round and flat	Round and flat
ns			Outside Color	Greyed Red	Nearest to Yellow
· · -			_ _ _	179C	23D
en	Yellow, thick, 3	Yellow, thick,	Bloom		
	mm in length	3 mm in length			
n	Appears at late	Appears at late	Size	Medium	Medium
	stage of blooming	stage of blooming	Fully Expanded	6½-7 cm	6½-7 cm
·\$	Green, thick	Green, thick	Borne	Upper portion,	Upper portion,
Length	±5 mm		DOTTIC		
_		±5 mm Vallow		single flower per	single flower per
nas Niideb	Yellow	Yellow		peduncle, lower	peduncle, lower
na Width	±1 mm	±1 mm		portion plural	portion plural
i c s	Enclosed in calyx	Enclosed in calyx		flowers per pe-	flowers per pe-
				duncle	duncle
			Peduncle Lengths	Near the top ±14	Near the top ±14
1	Spray mum meant	Spray mum meant		cm, near the	cm, near the
	for erect culture.	for erect culture.		middle ±24 cm	middle ±24 cm,
	Herbaceous.	Herbaceous.		near the bottom	near the bottom
/th	Strong	Strong		±28 cm	±28 cm
ht .	100–125 cm	100–125 cm	Peduncle Lateral	weak	medium
Color	Yellow-Green	Yellow-Green	Shoot, Attachment		
	146B	144A	Peduncle Lateral	small	medium
Strength	Medium	Medium	Shoot, Angle	P-124441	erbota Will
•				Cimala (Dalam)	Clasta (Dalas)
Brittleness	Absent	Absent	Form	Single (Daisy)	Single (Daisy)
Anthocyanin	Absent	Present	Performance	Very good 24–28	Very good 24–28
ration				days (18-20° C.)	days (18-20° C.)
nodes	3 cm	3 cm	Color		
ering Response	7½ weeks	7½ weeks	Center of Flower:		
ge					
			Immature	Yellow-Green	Yellow-Green
•	Upperside green	Upperside Green		151C	151C
	137A. Underside	137A. Underside	Mature	Yellow-Green	Yellow-Green
		A 67 4 84 84 84 84 84 84 84		WAYVM	TATE IS ALVAIN
	Green 137C.	Green 137C.		154A	154A

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Detailed B	otanical Description and	Comparative Data	Detailed Be	otanical Description and	Comparative Data
Base of Petals	Yellow 8A with	Nearest to orange	Quantity	22–28	22–28
	an overlay of	29C	Shape	Lobed	Lobed
	Greyed Red	179 B	Texture	Upperside rough,	Upperside rough,
				underside smooth,	underside
uter Petals	Yellow 8A with an overlay of	Nearest to orange 29C		slightly hirsute	smooth, slightly hirsute
	Greyed Red		Ribs and Veins	Ribs well deve-	Ribs well deve-
	179B			loped. Veins not	loped. Veins not
side of Petals	Yellow 8A	Nearest to orange		so developed.	so developed.
ISIUC OI PCIAIS	an overlay of	29C	Edge	Crenated	Crenated
	•	L)C	Shape of Base of	Round	Round
arrama of Batala	Greyed Red 179B	Magraet to crosses	Sinus Between	Round	Kouiki
everse of Petals	Yellow 8C tin-	Nearest to orange			
	ged along the	22D	Lateral Lobes	Conversions	Dorollol
	center with		Margin of Sinus	Converging	Parallel
	Greyed Red		Between Lateral		
	179B in a tesse-		Lobes	4	4
1°. C	lated pattern	A 11	Shape of Base	Asymmetric	Asymmetric
onality from	A pale bronze	A yellow-orange	Apex	Cuspidate	Cuspidate
istance	daisy with a	to orange daisy	Growth		
	fresh looking	with a fresh look-	* * * *		
	center having a	ing center having	Difference in ave-	0	+10 cm
	little or no pollen	a little or no	rage length		
	→	pollen	Response time		
iscoloration	None	None			
ollen	Yellow-Orange	Yellow-Orange	Difference in days	-1/2	0
	14A	14A	of average response		
etals			Response to ALAR		
exture	Upperside	Upperside	(g/100 l	250	45 0
	smooth, undersi-	smooth, undersi-	H ₂ O)		•
	de smooth	de smooth	Year of Discovery	1998	1997
lumber	24-30 (two rows)	24-30 (two rows)			
ross-section	flat, two keels	flat, two keels	CULTIVAR	Sulfur Reagan	Parent Cultivar Reaga
rrangement	Imbricated	Imbricated		2 mir 110 mg mir	* # # **** * * * * * * * * * * * * * *
ersistence		Good. Petals	Bud		
cisisicice	Good. Petals keep		- Duc		
	straight or reflex	keep straight or	Ci	Medium	Medium
	somewhat at the	reflex somewhat	Size		_
	edge at the end of	at the edge at the		cross section	cross section
	blooming.	end of blooming.		±1.0 cm	±1.0 cm
ragrance	Typical Chrysan-	Typical Chrysan-		height ±0.7 cm	height ±0.7 cm
	themum	themum	Form	Round and flat	Round and flat
isc Diameter	Me dium	Medium	Outside Color	Yellow 10C	Greyed Purple
	(1.5 cm)	(1.5 cm)			186D but paler
eproductive			Bloom		
rgans					
			Size	Medium	Medium
tamen	Yellow, thick, 3	Yellow, thick,	Fully Expanded	7-7½ cm	6 1/2 −7 cm
	mm in length	3 mm in length	Borne	Upper portion	Upper portion,
oll e n	Appears at late	Appears at late		single flower per	single flower per
	stage of blooming	stage of blooming		peduncle, lower	peduncle, lower
tyles	Green, thick	Green, thick		portion plural	portion plural
tyle Length	±5 mm	±5 mm		flowers per pe-	flowers per pe-
	Yellow	Yellow		duncle	duncle
tigmas tigma Width			Peduncle Lengths	Near the top ±14	Near the top ±14
tigma Width	±1 mm Enclosed in colum	±1 mm Enclosed in calve	Learning Tenant	_ •	cm, near the
varies lent	Enclosed in calyx	Enclosed in calyx		cm, near the middle ± 24 cm	middle ±24 cm,
lant				mear the bottom	mear the bottom
	C	C			
omn	Spray mum meant	Spray mum meant	n.1. 1 7 - 4 1	±28 cm	±28 cm
	for erect culture.	for erect culture.	Peduncle Lateral	weak to medium	Medium
	Herbaceous.	Herbaceous.	Shoot, Attachment		~ • •
rowth	Strong	Strong	Peduncie Lateral	small	Medium
leight	100–125 cm	100–125 cm	Shoot, Angle		
tem Color	Yellow-Green	Yellow-Green	Form	Single (Daisy)	Single (Daisy)
	144A	144A	Performance	Very good 24-28	Very good 24-28
tem Strength	Medium	Medium		days (18-20° C.)	days (18-20° C.)
tem Brittleness	Absent	Present	Color		
tem Anthocyanin	Present	Present	Center of Flower:		
oloration	5 4~+~~\$4L	~~			
OIOLAUOII	2	2 000	Immotives	Yellow-Green	Yellow-Green
	3 cm	3 cm	Immature		
ntermodes	7½ weeks	7½ weeks		151C	151C
nternodes lowering Response			Mature	Yellow-Green	Yellow-Green
iternodes lowering Response oliage				154A	154A
nternodes lowering Response oliage					n. 1 den
ternodes lowering Response oliage	Upperside green	Upperside Green	Base of Petals	Yellow 6D	Purple 75B
ternodes lowering Response oliage	Upperside green	Upperside Green 137A. Underside			•
iternodes lowering Response oliage	137A. Underside	137A. Underside	Outer Petals	Yellow 6D	Purple 75B
iternodes lowering Response oliage olor	137A. Underside Green 137C.	137A. Underside Green 137C.	Outer Petals Inside of Petals	Yellow 6D Yellow 6D	Purple 75B Purple 75B
itemodes lowering Response oliage	137A. Underside	137A. Underside	Outer Petals	Yellow 6D	Purple 75B

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Detailed Botanical Description and Comparative Data				
Tonality from	A yellow daisy	A pale pink daisy		
Distance	with a fresh look-	with a fresh look-		
	ing center having a	ing center having		
and a co	little or no pollen	a little or no pollen		
Discoloration	None	Some to Red-		
D (1	37.11	Purple 69D		
Pollen	Yellow-Orange	Yellow-Orange		
Dakala	14A	14A		
Petals				
Texture	Upperside smooth,	Upperside smooth,		
	underside smooth	underside smmoth		
Number	24-30 (two rows)	24-30 (two rows)		
Cross-section	flat, two keels	flat, two keels		
Arrangement	Imbricated	Imbricated		
Persistence	Good. Petals keep	Good. Petals		
	straight or reflex	keep straight or		
	somewhat at the	reflex somewhat		
	edge at the end of	at the edge at the		
	blooming.	end of blooming.		
Fragrance	Typical Chrysan-	Typical Chrysan-		
	themum	themum		
Disc Diameter	Medium	Medium		
T	(1.5 cm)	(1.5 cm)		
Reproductive				
Organs				
Stamen	Yellow, thick, 3	Yellow, thick,		
	mm in length	3 mm in length		
Pollen	Appears at late	Appears at late		
	stage of blooming	stage of blooming		
Styles	Green, thick	Green, thick		
Style Length	$\pm 5 \text{ mm}$	±5 mm		
Stigmas	Yellow	Yellow		
Stigma Width	±1 mm	±1 mm		
Ovaries	Enclosed in calyx	Enclosed in calyx		
Plant				
Form	Spray mum meant	Spray mum meant		
	for erect culture.	for erect culture.		
	Herbaceous.	Herbaceous.		
Growth	Strong	Strong		
Height	100–125 cm	100-125 cm		
Stem Color	nearest Green	Yellow-Green		
	143C	144A		
Stem Strength	Medium to strong	Medium		
Stem Brittleness	Absent	Present		
04 A	Absent	Absent		
Stem Anthocyanin	Abscill	Ausch		

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Detailed Botanical Description and Comparative Data			
Internodes Flowering Response Foliage	3 cm 7½ weeks	3 cm 7½ weeks	
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 deve- loped. Veins not so developed.	Ribs well deve- loped. Veins not so developed.	
Edge Shape of Base of Sinus Between Lateral Lobes	Crenated Round	Crenated Round	
Margin of Sinus Between Lateral Lobes	Parallel	Converging	
Shape of Base Apex	Asymmetric Mucronate	Rounded Cuspidate	
Growth			
Difference in ave- rage length Response time	+10 cm	0	
Difference in days of average response Response to ALAR	-1	0	
(g/100 l H ₂ O)	450	300	
Year of Discovery	1990	1996	

I claim:

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

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