

June 12, 1973

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Plant Pat. 3,357

CHRYSANTHEMUM PLANT

Filed Sept. 14, 1971

2 Sheets-Sheet 1



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CHRYSANTHEMUM PLANT

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berton, Ohio

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1 Claim

The present invention comprises a new and distinct
cultivar of chrysanthemum plant which is a sport of the
cultivar known in the United States as Aglow, disclosed
and illustrated in our pending application for U.S. Patent
Ser. No. 80,256, filed Oct. 12, 1970, and now
P.P. 3,212.

The new cultivar is similar in certain respects to Aglow,
having the same characteristics of:

(1) Flower form.

(2) Foliage size.

The new cultivar is distinguished from Aglow by the
following characteristics, when grown under comparable
conditions:

(1) Flowers approximately 1/4" smaller in diameter.

(2) More prolific, producing approximately 3 to 4
more flowers per stem.

(3) A more orange coloration.

(4) Approximately 2" to 3" less vigor.

(5) A lighter foliage color.

(6) Approximately three days earlier response.

(7) A more uniform response within a flowering block.

The new cultivar was selected from a flowering block
of the parent cultivar at Barberton, Ohio, and when
asexually reproduced by cuttings at Barberton, Ohio, has
been found to retain its distinctive characteristics through
successive propagations.

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The new cultivar when grown in the vicinity of Bar-
berton, Ohio, has a response period of approximately 9
weeks as a spray pot and has a mid 9 to early 10 week
response as a cut spray, and the following detailed de-
scription is based on observations made of the new cul-
tivar in a greenhouse in Barberton, Ohio. The response
time, blooming period, color, and total vigor may vary
significantly with varying environmental conditions such
as temperature, day length, and light intensity. Suggested
flowering in the northern and western United States is
from October through June as a pot mum; mid-September
through mid-November and April through mid-June as a
cut spray; in coastal California, year-round as a pot mum;
October through July as a cut spray, and in southern
Florida, December through April as a pot mum and cut
spray.

The accompanying drawings show the unique charac-
teristics of the new cultivar, with the color being as true
as possible with color illustrations of this type. Sheet 1
is a comparison view of the new cultivar and the parent
cultivar Aglow on the right. This photograph was taken
of a flowering in May under higher finishing tempera-
tures. Sheet 2 comprises a photograph of the new cultivar
as a pot mum, and was taken of a flowering in early
February under cooler finishing temperatures. The some-
what darker flower color due to the cooler finishing tem-
peratures will be noted.

In the description which follows, color references are
to the Munsell Color Book, 1963 edition, and comparisons
are made with the parent cultivar Aglow. Where only
a single value or description appears for the new cultivar,
the same value or description applies as well to the parent
cultivar.

Botanical classification: *Chrysanthemum morifolium*

	Orange Aglow	Aglow
Bloom:		
Size	2 3/4"	2 3/4"
Fully expanded	4"	4 1/4"
Borne	Clustered on elongated pedicel	
Stems	6"-10"	Elongated pedicels 8" to 12" long.
Form	Daisy (single)	
Permanence	7-10 days	
Color:		
Center of flower	Yellow green, 5GY5/6 to 6.25Y7/12	Yellow green, 5GY5/6 to 6.25Y7/12.
Base of petals	Orange bronze, 2.5GY7/8	Approximately bronze, 10R4/10 to bronze, 5YR6/12.
Inside of petals	Bronze, 6.25YR6/12 to orange bronze, 8.75YR7/14	Approximately bronze, 8.75YR7/14 to light bronze, 10YR7/12.
Reverse of petals	Light bronze, 10YR7/10 to yellow bronze, 5Y8.5/10	Yellow green, 5Y8/8.
Tonality from a distance	Orange	Red bronze.
Discoloration	Light bronze, 8.75YR7/14	Light bronze, 10YR7/12.
Petals:		
Texture	Smooth	Rough.
Appearance and form	Open at base, broaden quickly, two main keels at bottom, tapering to a blunt point.	Deeply keeled with ridges, tapering to a blunt point.
Arrangement	Composite, whorled on a single receptacle	
Persistence	Resists shatter	
Fragrance	Typical chrysanthemum	
Reproductive organs:		
Stamen, anthers	200+	
Pollen	Abundant to none (functional sterility)	
Arrangement	Clustered in center of flower, if present	
Styles	Present in both ray and disc florets	
Length	Short	
Ovaries	At the base of petal attached to receptacle	
Plant:		
Form	Herbaceous	
Growth	Semi-upright	
Height	31"-35" as a daisy pompon when given 4-5 long day weeks and a total crop time of 13-14 weeks; 10"-16" as a pot mum given 9 week tall treatment as outlined in the time- tables of Yoder Bros., Inc., Barberton, Ohio, for the various seasons of the year.	34"-38" as a daisy pompon when given 4-5 long day weeks and a total crop time of 13-14 weeks; 12"-18" as a pot mum given 9 week tall treatment as outlined in timetables of Yoder Bros., Inc., Barberton, Ohio, for the various seasons of the year.
Spread	6"-8" as a pinched pot plant	
Foliage:		
Top side	Dark green, 7.5GY3/4	Dark green, 10GY2/4.
Size	4 1/4" long, 2 3/4" wide	
Quantity	Numerous	
Shape	Spatulate lobed	Palmate lobed.
Texture	Smooth	Smooth.
Ribs and veins	Prominent	
Edge	Deeply indented	
Serration	Slight	
Under side	Light green, 5GY4/4	Light green, 7.5GY4/4.
Stipules	Base of petiole prominent	

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We claim:

1. A new and distinct cultivar of chrysanthemum characterized particularly as to its uniqueness when compared to the parent cultivar Aglow by its flowers which are approximately $\frac{1}{4}$ " smaller in diameter; its higher production, producing approximately 3 to 4 more flowers per stem; more orange coloration; approximately 2"

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to 3" less vigor; lighter foliage color; approximately three days earlier response, and its more uniform response within a flowering block.

No references cited.

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