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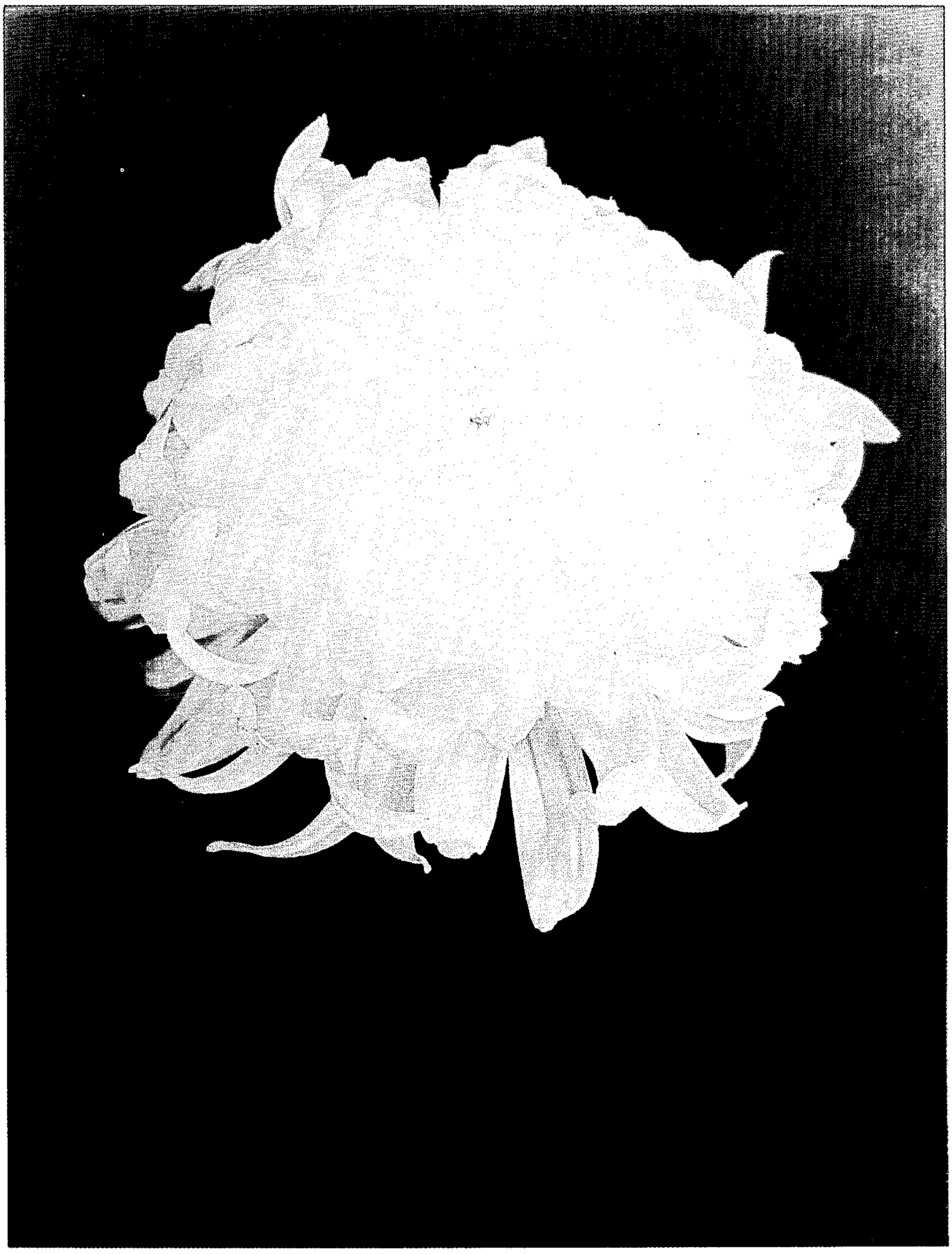
CHRYSANTHEMUM PLANT

Filed Sept. 11, 1973



United States Patent Office

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CHRYSANTHEMUM PLANT

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Int. Cl. A01h *5/00*

U.S. Cl. Plt.—77 **1 Claim**

The present invention comprises a new and distinct cultivar of chrysanthemum plant known by the varietal name Arcade which is a seedling of #66088002× #65138002. Both parents are unpatented and identified for breeding purposes by the above breeding numbers.

The new cultivar is similar in certain respects to Jumbo Albatross, described and illustrated in U.S. Plant Patent 3,249, having the same characteristics as Jumbo Albatross of:

1. Excellent shipping and handling qualities.
2. A requirement for relatively high light intensities in combination with moderate night temperatures to develop optimum flower size and form.

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

1. A year round period of value in Coastal California.
2. A whiter flower color.
3. A more incurved flower form.
4. Better form retention, having approximately 2–4 days greater bench life.
5. Improved stem strength and stem caliper.
6. 4–7 days earlier response.
7. Approximately 8 inches more vigor.
8. Approximately 1 inch larger flower size.
9. Less tolerant to marginal temperatures (56° F.) for uniform bud initiation.
10. A greater sensitivity to mildew.

11. Requires more attention to prompt lateral bud removal in order to obtain maximum size.

The new cultivar was selected from the progeny of the designated cross, and when asexually reproduced by cuttings at Barberton, Ohio, has been found to retain its distinctive characteristics through successive propagation.

The new cultivar, when grown in the vicinity of Salinas, California, has a late 7 week response period March through June and October through November, and an early 8 week response December through February and July through September. The following detailed description is based on observations made of the new cultivar in a greenhouse in Salinas, California. The response time, blooming period, color, and total vigor may vary significantly with varying environmental conditions such as temperature, daylength, and light intensity. Suggested flowering in the northern United States is from April 15 through May 30 and October 1 through November 15; southeastern United States, March 1 through April 30 and October 15 through November 15; southwestern United States, March 1 through April 30 and October 15 through November 15; coastal California, year round, and southern Floride under outdoor conditions, December 15 through March 15.

The accompanying photographic drawing comprises a specimen photograph of the new cultivar and shows the unique characteristics thereof. The color is as nearly true as possible with color illustrations of this type. Color references in the following description are made to the Munsell Book of Color, 1963 Edition, with the exception of Arcade's top side leaf color where reference is made to Munsell Limit Color Cascade, 1972 Edition, and comparisons are made with the cultivar Jumbo Albatross. Where only a single value or description appears for the new cultivar, the same value or description applies as well to Jumbo Albatross.

Botanical classification: *Chrysanthemu n morifolium*

	Arcade	Jumbo Albatross
Bloom:		
Size	6″	5½″.
Fully expanded	6½″	6″.
Borne	Singly on disbudded plants.	
Stems	Strong and sturdy	Strong.
Form	Tight incurve	Incurve.
Permanence	12–14 days	10 days.
Color:		
Center of flower	Pale ivory, 5Y9/1	Pale yellow, 7.5Y9/4.
Base of petals	do	Ivory white, 5Y9/1.
Inside of petals	White, N9.5/	Do.
Reverse of petals	White, N9/	Do.
Tonality from a distance	White	Ivory white.
Discoloration	White, N9.5	Ivory white, 5Y9/1.
Petals:		
Texture	Smooth with occasional seta on reverse	Smooth.
Appearance and form	Open at base with wide rounded keel, tapering to a blunt hooded tip.	Tubular at base, deep rounded keel, tapering to a hooded blunt tip with characteristics finger-like appendages on side of keel.
Arrangement	Composite, whorled on a single receptacle	
Persistence	Resist shatter	
Fragrance	Typical chrysanthemum	
Reproductive organs:		
Stamen, anthers	5–15	0–5.
Pollen	None to very scant	
Arrangement	Clustered in center of flower, if present	
Styles	Present both ray and disc florets	
Length	Short	
Ovaries	At the base of petal attached to receptacle	
Plant:		
Form	Herbaceous	
Growth	Upright	
Height	44″–46″ given 3–6 long day weeks, and 10–14 weeks total crop time year round, as defined in the timetables of Yoder Brothers, Inc., Barberton, Ohio.	36″–38″ given 3–4 long day weeks, and 11–12 week total crop time (April through November only), as defined in the timetables of Yoder Brothers, Inc., Barberton, Ohio.
Spread	None grown single stem to slight grown pinched	
Foliage:		
Top side	Very dark green 8.9GY2.3/4.7	Dark green 2.5GY2/4.
Size	Width to length ratio 25:14 with width to 3½″ and length to 6¼″.	Width to length ratio 13:23 with length to 5¾″ and width to 3¼″.
Quantity	Numerous	
Shape	Spatulate lobed	
Texture	Moderately coarse	Smooth.
Ribs and veins	Prominent	
Edge	Deeply indented	Moderately indented.
Serration	Coarse	Very slight.
Under side	Greyed green, 2.5GY3/4	Greyed green, 2.5GY4/4.
Stipules	Prominent	Small.

We claim:

1. A new and distinct cultivar of chrysanthemum characterized particularly as to its uniqueness when compared to the cultivar Jumbo Albatross by its year round period of value in Coastal California; whiter flower color; more incurved flower form; better form retention, having approximately 2–4 days greater bench life; improved stem strength and stem caliper; 4–7 days earlier response; approximately 8 inches more vigor; approximately 1 inch larger flower size; less tolerant to marginal temperatures (56° F.) for uniform bud initiation; greater sensitivity to mildew, and by its requiring more attention to prompt lateral bud removal in order to obtain maximum flower size.

No references cited.

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