

Nov. 13, 1973

Plant Pat. 3,408

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CHRYSANTHEMUM PLANT

Filed March 2, 1972



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CHRYSANTHEMUM PLANT

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Filed Mar. 2, 1972, Ser. No. 231,427

Int. Cl. A01h 5/00

U.S. Cl. Plt.—81

1 Claim

The present invention relates to a new and distinct cultivar of chrysanthemum plant asexually reproduced by cuttings from a seedling selected from among the progeny of the cross of unpatented parent plants selected from among the stocks maintained by the Department of Horticulture, University of Illinois, Urbana, Ill., and identified for breeding purposes as Nos. 1-13 and 4-5.

Successive propagations of my new cultivar have retained the distinctive unique characteristics thereof, to wit:

(1) Deep purplish pink decorative flowers 4½" to 5" in diameter when produced on a pinched plant and disbudded to 1 flower per stem;

(2) Flower color decidedly resistant to fading even when grown and flowered under extremely high temperatures and full intensity of the sun;

(3) Flowering response of approximately 9 weeks from start of initiation and decidedly resistant to delay or "stall" induced by extremely high temperatures;

(4) Slow opening of the ray florets and ability to retain its form result in long "shelf life" or keeping quality; and

(5) Strong plants that average 4 to 5 breaks per pinched plant.

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My new cultivar, when grown in the vicinity of Urbana, Ill., has a response period of approximately 9 weeks from start of initiation, and the following detailed description is based on observations made of the new cultivar in the Floriculture greenhouses in Urbana, Ill. The response time, blooming period, color, and total vigor may vary significantly with varying environmental conditions such as temperature, day length, light intensity and amount of carbon dioxide in the greenhouse atmosphere.

The following chart outlines the variation in flowering response pattern experienced for the various seasons in Urbana, Ill. with carbon dioxide injected into the greenhouse when possible.

Months:	Flowering response pattern at Urbana, Ill.
March through May	Mid 8 week.
June and July	9 week.
August and September	Late 9 week.
October and November	Early 9 week.
December through February	9 week.

Suggested period for flowering with superior results in the north central United States is from April through November. Satisfactory results may be obtained in the above area from December through March.

The accompanying drawing shows the unique characteristics of my new cultivar, the color being as nearly true as possible with color illustrations of this type. Color references are made to the Nickerson Color Fan published by Munsell Color Co. 1957.

Botanical classification: *Chrysanthemum morifolium* Ramat

Bloom:

Size (when disbudded and fully expanded).	4½" to 5".
Depth (when disbudded and fully expanded).	1½" to 2".
Form	Decorative type, almost or fully double; inner ray florets remain erect as outer florets assume first a horizontal and later a slightly reflexed position; inner florets later flatten.
Borne	Clusters on elongated pedicels.
Stems	Strong.
Permanence	14 to 18 days.
Petals (ray florets):	
Color:	
Center of flower	Strong reddish purple, 2.5RP 5/10.
Tips of florets	Deep purplish pink, 2.5RP 6/10.
Base of florets	Brilliant yellow green, 2.5 Gy 9/8.
Reverse of florets	Light purplish pink, 2.5RP 8/5.
Overall tonality	Deep purplish pink, 2.5RP 6/10.
Discoloration	None.
Form	Linear with apex obtuse; flat.
Number	330 to 380.
Arrangement	Composite, whorled in a single receptacle.
Texture	Smooth.
Fragrance	Typical chrysanthemum.
Persistence	Strongly resist shattering.
Disc florets:	
Color	Brilliant greenish yellow 7.5y 9/8.
Form	Tubular.
Size	Length ¼"; diameter ⅛".
Number	None to 5.
Reproductive organs:	
Stamens, anthers	Epipetalous and syngenesious in disc florets.
Number	None to 25.
Arrangement	Clustered in center of bloom, if present.
Pollen	None to very sparse.
Color	Vivid yellow, 2.5y 8/12.
Pistil:	
Style:	
Number	1 per each ray or disc floret.
Length	Short.
Stigma:	
Number	2 per each style.
Ovary:	
Position	At base of ray or disc floret attached to receptacle.

TABLE—Continued

Plant:	
Form.....	Herbaceous perennial.
Growth.....	Spreading.
Height.....	Average height 12" (range 9" to 15") when pinched and given 9 week medium treatment during the various seasons of the year.
Spread.....	Average spread 17" (range 15" to 19") when pinched and given 9 week medium treatment during the various seasons of the year.
Foliage:	
Color:	
Top side.....	Moderate olive green, 7.5 GY 4/4.
Bottom side.....	Moderate yellow green, 7.5 GY 5/7.
Size.....	Average length 3"; average width 1½" (range: length 2" to 4"; width 1½" to 2½").
Quantity.....	12 to 16 leaves per 6" stem when pinched and given 9 week medium treatment during the various seasons of the year.
Shape.....	Simple, obovate.
Margin.....	Deeply lobed.
Base.....	Hastate.
Apex.....	Acute.
Venation.....	Pinnate, prominent.
Texture.....	Coarse.
Stipules.....	Rudimentary.

What is claimed is:

1. A new and distinct cultivar of chrysanthemum plant substantially as herein shown and described, characterized particularly as to novelty by decorative type flowers of satiny deep purplish pink color that resist fading to a remarkable degree even when exposed to extremely high temperatures and which open slowly and retain their form over a long time extending the useful shelf life," by

flower buds which develop normally in approximately 9 weeks from start of initiation without delay or stall even when grown under extremely high temperatures, and by strong plants which average 4 to 5 breaks per pinched plant making a showy display of the 4½" to 5" flowers.

No references cited.

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