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**May**

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(54) **CHRYSANTHEMUM PLANT NAMED**  
**'JMAY02'**

(58) **Field of Search** ..... Plt./286

(50) Latin Name: *Chrysanthemum morifolium*  
Varietal Denomination: **JMay02**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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PP8,464 P 11/1993 VandenBerg ..... Plt./286

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 4 days.

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(57) **ABSTRACT**

(22) Filed: **Jul. 26, 2002**

A new and distinct Chrysanthemum plant cultivar is  
disclosed, characterized by having a large (10–12 cm) daisy  
flower form with golden yellow ray florets that have a  
distinctive red streaking. The floral longevity is very good,  
and the overall plant vigor is excellent.

(65) **Prior Publication Data**

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(51) **Int. Cl.**<sup>7</sup> ..... **A01H 5/00**

(52) **U.S. Cl.** ..... **Plt./286**

**1 Drawing Sheet**

**1**

**2**

Latin name of the genus and species: The present invention  
relates to a new and distinct cultivar of Chrysanthemum  
plant, botanically known as *Chrysanthemum morifolium*.

Variety denomination: The new and distinct  
Chrysanthemum plant is hereinafter referred to by  
the cultivar name 'JMay02'.

**BACKGROUND OF THE INVENTION**

The new cultivar is a discovered natural mutation. The  
new cultivar was discovered in a cultivated area and selected  
by the inventor in a controlled environment in October 2001.

Asexual reproduction of the new cultivar by cuttings was  
performed in San Luis Obispo, Calif. and has shown that the  
unique features of this cultivar are stable and reproduced  
true to type on successive generations.

**SUMMARY OF THE INVENTION**

The cultivar 'JMay02' has not been observed under all  
possible environmental conditions. The phenotype may vary  
somewhat with variations in environment such as  
temperature, daylength, and light intensity, without,  
however, any variance in genotype.

The following traits have been repeatedly observed and  
are determined to be the unique characteristics of 'JMay02'.  
These characteristics in combination distinguish 'JMay02'  
as a new and distinct Chrysanthemum cultivar:

1. The flowers have Golden yellow petals with red brush-  
stroke stripes.
2. The flowers are large (10–12 cm) and of daisy flower  
form.
3. The plant has a strong, spreading growth habit with  
slightly sparse foliage.
4. The branching habit is four to six breaks per stem on a  
single pinch.

5. Floral longevity is very good. Flower color intensity  
fades with time.

6. Plants have excellent vigor and strong stems.

7. The brushstroke characteristic on ray floret petals is  
distinctive and very unique.

Plants of the new cultivar are similar to plants of the  
parent variety 'Pelee' (U.S. Plant Pat. No. 8,464) in most  
horticultural characteristics, such as growth habit, longevity,  
and plant vigor. However, in contrast to 'Pelee', plants of the  
new variety have a distinct flower petal color having red  
streaking on a yellow background.

Plants of the new cultivar are similar to plants of a  
comparable variety 'Fire Island'. In contrast to 'Fire  
Island', 'JMay02' flower petal color is yellow with red  
brushstrokes or streaking. Additionally, 'JMay02' petals  
have an acute rather than obtuse tip, and the flowers also  
tend to reflex less than in the comparable variety 'Fire  
Island'. The flower color of 'JMay02' fades more quickly  
than in 'Fire Island'. The disc corolla is also more rounded  
than in 'Fire Island'. Further, the growth habit of 'JMay02'  
is slightly less vigorous, more spreading and less upright  
than in 'Fire Island'. The foliage color is lighter, more  
sparse, and more subdued than in 'Fire Island'.

**BRIEF DESCRIPTION OF THE PHOTOGRAPH**

The accompanying colored photograph illustrates the  
overall appearance of the new Chrysanthemum, showing the  
colors as true as it is reasonably possible to obtain in colored  
reproductions of this type. Colors in the photographs may  
differ slightly from the color values cited in the detailed  
botanical description which accurately describe the colors of  
the new Chrysanthemum; and shows a top view of a plant of  
'JMay02' in full bloom, growing in a 6.5 inch container. Five  
cuttings were used in the container.

**DETAILED BOTANICAL DESCRIPTION**

In the following description, color references are made to  
The Royal Horticultural Society Colour Chart except where

general terms of ordinary dictionary significance are used. The following observations and measurements describe plants grown in San Luis Obispo, Calif., during Spring 2002. The plants were grown in a greenhouse with a growing temperature ranging from 65° to 70° F. at night to 70° to 75° F. during the day. The observed plants were approximately 72 days old as measured from the date of rooting of the cutting. The observed plants were first grown for 16 days with "long day" light conditions, then switched to "short day" conditions for the last 56 days. Measurements and numerical values represent averages of typical flowering types.

Botanical classification: *Chrysanthemum morifolium* cultivar 'JMay02'.

Commercial classification: Florist Chrysanthemum.

Parentage: 'JMay02' is a natural mutation of the parent variety 'Pelee' (U.S. Plant Pat. No. 8,464).

### PROPAGATION

Time to initiate roots:

*Summer*.—Approximately 3–5 days at 72° F.

*Winter*.—Approximately 4–6 days at 72° F.

Time to develop roots:

*Summer*.—Approximately 8–12 days at 72° F.

*Winter*.—Approximately 10–14 days at 72° F.

### PLANT

Plant type: Herbaceous perennial.

Growth habit: Semi-spreading.

Height: Approximately 25–35 cm as a disbud pot mum with 0–7 long days after pinch.

Spread: Approximately 40–45 cm.

Growth rate: Approximately 3–4 cm per week after pinch.

Disease resistance: Very good to excellent resistance to most common chrysanthemum diseases.

Longevity: Flowers last for two to four weeks in a presentable state.

Branches:

*Branching characteristics*.—Freely branching.

*Length of lateral branches*.—Approximately 20–25 cm.

*Diameter of lateral branches*.—Approximately 4–6 mm.

*Number of leaves per lateral branch*.—Approximately 13–15.

Stems:

*Stem internode length*.—Approximately 2–8 cm.

*Stem color*.—About 138C RHS.

*Stem and stem base strength*.—Very strong.

*Stem texture*.—Pubescent.

*Stem growth habit*.—Ascending.

Roots:

*Rooting habit*.—Vigorous and well-branched.

*Root texture*.—Fibrous.

### FOLIAGE

Leaf:

*Arrangement*.—Alternate.

*Leaf type*.—Simple.

*Leaf width*.—Juvenile Leaf — width: Approximately 10–15 mm. Mature Leaf — width: Approximately 50–70 mm.

*Leaf length: (base to apex)*.—Juvenile Leaf — length: Approximately 25–30 mm. Mature Leaf — length: Approximately 90–110 mm.

*Leaf shape*.—Lanceolate to ovate (moderately to deeply lobed and slightly serrate).

*Shape of blade*.—Simple.

*Apex*.—Acute (slightly serrate).

*Base*.—Attenuate.

*Attachment*.—Attenuate to stem.

*Leaf aspect*.—Juvenile leaves slightly cupped, changing at times to slightly recurved in mature foliage.

*Margin*.—Moderately to deeply lobed and slightly serrate.

*Texture of top surface*.—Canescent.

*Texture of bottom surface*.—Pubescent.

*Color*.—Young foliage upper side: Approximately 141A RHS. Young foliage under side: Approximately 138B RHS. Mature foliage upper side: Approximately 139A RHS. Mature foliage under side: Approximately 137C RHS. Venation upper side: Approximately 138B RHS. Venation under side: Approximately 139C RHS. Venation Pattern: Palmate.

Stipule:

*Stipule number*.—Two per leaf.

*Stipule size*.—About 8 mm by 10 mm.

*Stipule shape*.—Deltoid.

*Foliage durability*.—Foliage is very durable throughout the length of the stem.

*Stipule color (upper side)*.—Approximately 136A RHS.

*Stipule color (under side)*.—Approximately 137A RHS.

Petiole:

*No real petiole*.—Leaf is attenuate to stem.

### INFLORESCENCE

Inflorescence characteristics:

*Flowering habit*.—Requires a minimum of 12 hours darkness per day in order to initiate floral induction and bud development.

*Flowering induction*.—Twelve hours of darkness per day for 52–58 days required to develop blooms.

*Inflorescence form*.—Flat capitulum type daisy.

*Natural flowering season*.—Fall.

*Number of inflorescences per lateral branch*.—Approximately one, after disbudding the stem. Six to eight, without disbudding.

*Inflorescence diameter*.—Approximately 10–12 cm.

*Inflorescence depth*.—Approximately 2–3 cm.

*Inflorescence longevity on plant*.—Approximately 21–28 days.

*Persistence*.—Persistent.

*Disc diameter*.—Approximately 2 cm.

Ray florets:

*Arrangement*.—Ray florets arranged in multiple layers around disc florets.

*Texture*.—Smooth to satiny.

*Average number per flower*.—Approximately 30–35.

*Shape*.—Elliptic.

*Apex*.—Acute.

*Aspect*.—Approximately 15–90 degrees from vertical.

*Margin*.—Entire.

*Length*.—Approximately 5 cm.

*Width*.—Approximately 2 cm.

*Color*.—Upper surface at first opening: Near 9A and 34A RHS. Upper surface at maturity: Near 9B and 172A RHS. Under surface at first opening: Near 12B and 180A with 5B overtones RHS. Under surface at maturity: Near 12B and 180B with 5C overtones RHS.

*Color changes as the ray flower ages*.—Red streaking is in sharp contrast to yellow background as the flower first opens. Streaking fades somewhat as flower matures, but is still distinct as multiple brush-strokes or streaking over yellow background.

*Ray floret pistils*.—Number of pistils per flower: One. Stigma shape: 2 Branched. Stigma color: Near 7A. Style color: Near 1A. Style length: Approximately 4–5 mm.

Disc florets:

*Appearance*.—Glossy.

*Texture*.—Satin smooth.

*Average number per flower*.—Numerous, approximately 200 to 400.

*Shape*.—Tubular.

*Apex*.—5 acute incurved tips.

*Average length*.—Approximately 6–8 mm.

*Average width*.—Approximately 1–2 mm.

*Color*.—At first opening: Near 151A. At maturity: Near 7A.

*Changes in the disc floret upon aging*.—Disc florets mature exposing stigmas from outer edge of disc towards the center.

*Disc flower pistils*.—Number of pistils per flower: One. Stigma shape: 2 Branched. Stigma color: Near 7A. Style color: Near 1A. Style length: Approximately 4–5 mm.

*Disc flower stamens*.—Number of stamens per flower: 5. Anther shape: Syngenesious. Anther color: Near 7A. Pollen color: Near 7A. Pollen Quantity: Low — very little present.

Peduncle:

*Length*.—At terminal end (shortest): Approximately 1 cm. At lateral end (longest): Approximately 4 cm.

*Diameter*.—Approximately 4–5 mm.

*Angle to stem*.—10–30 degrees.

*Strength*.—Strong.

*Color*.—Near 138D RHS.

*Habit*.—Erect.

*Surface*.—Pubescent.

Inflorescence bud:

*Length*.—Approximately 8–10 mm.

*Diameter*.—Approximately 12–14 mm.

*Form*.—Globular.

*Color*.—Near 141A RHS.

*Rate of flower opening*.—Approximately 14–21 days.

Involucral bracts (phyllaries):

*Appearance*.—Matte.

*Arrangement*.—Whorled.

*Texture*.—Pubescent.

*Number*.—Approximately 30–50.

*Shape*.—Ovate.

*Margin*.—Entire.

*Apex*.—Acute.

*Length*.—Approximately 8–14 mm.

*Width*.—Approximately 3–5 mm.

*Color*.—Upper side: Near 134A RHS. Under side: Near 141A RHS.

OTHER CHARACTERISTICS

Seed production: Commercially, this plant is not used or observed in a stage wherein seeds would be produced. Therefore, seed production has not been observed.

What is claimed is:

1. A new and distinct cultivar of *Chrysanthemum* plant named 'JMay02' as herein illustrated and described.

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