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**Bergman**

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(54) **CHRYSANTHEMUM PLANT NAMED**  
**‘YOMARQUETTE’**

(50) Latin Name: *Chrysanthemum*×*morifolium*  
Varietal Denomination: **Yomarquette**

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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named  
‘Yomarquette’, characterized by its upright and uniformly  
mounded plant habit; freely branching and vigorous growth  
habit; dark green-colored foliage; uniform flowering  
response; early and freely flowering habit; decorative-type  
inflorescences with purple-colored ray florets; and good  
postproduction longevity.

**2 Drawing Sheets**

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Botanical designation: *Chrysanthemum*×*morifolium*.  
Cultivar denomination: ‘YOMARQUETTE’.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of *Chrysanthemum* plant, botanically known as  
*Chrysanthemum*×*morifolium*, commercially grown as a pot-  
ted *Chrysanthemum* and hereinafter referred to by the name  
‘Yomarquette’.

The objective of the breeding program is to create new  
potted *Chrysanthemum* cultivars that are suitable for year-  
round production with uniform plant growth habit, good  
vigor, desirable inflorescence form and floret colors, fast  
response time and excellent postproduction longevity.

The new *Chrysanthemum* originated from a cross-  
pollination made by the Inventor in March, 2000, in Salinas,  
Calif. of a proprietary *Chrysanthemum*×*morifolium* seedling  
selection identified as code number YB-6275, not patented,  
as the female, or seed, parent with a proprietary  
*Chrysanthemum*×*morifolium* seedling selection identified as  
code number YB-5681, not patented not patented, as the  
male, or pollen, parent. The new *Chrysanthemum* was  
discovered and selected by the Inventor as a single flowering  
plant within the progeny of the stated cross-pollination in a  
controlled environment in Fort Myers, Fla. in December,  
2001. The selection of this plant was based on its uniform  
plant growth habit, vigor, desirable inflorescence form and  
floret colors, fast response time and excellent postproduction  
longevity.

Asexual reproduction of the new *Chrysanthemum* by  
vegetative tip cuttings was first conducted in Fort Myers,  
Fla. in March, 2002. Asexual reproduction by cuttings has  
shown that the unique features of this new *Chrysanthemum*  
are stable and reproduced true to type in successive genera-  
tions.

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**SUMMARY OF THE INVENTION**

Plants of the cultivar Yomarquette have 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 ‘Yomar-  
quette’. These characteristics in combination distinguish  
‘Yomarquette’ as a new and distinct potted *Chrysanthemum*  
cultivar:

1. Upright and uniformly mounded plant habit.
2. Freely branching and vigorous growth habit.
3. Dark green-colored foliage.
4. Uniform flowering response.
5. Typically grown as a center-budded or as natural spray  
type.
6. Early flowering habit, seven-week response time.
7. Freely flowering habit.
8. Decorative-type inflorescences with purple-colored ray  
florets.
9. Good postproduction longevity with plants maintaining  
good substance and color for about three weeks in an  
interior environment.

Plants of the new *Chrysanthemum* differ from plants of  
the female parent selection in the following characteristics:

1. Plants of the new *Chrysanthemum* are more vigorous  
than plants of the female parent selection.
2. Plants of the new *Chrysanthemum* flower about one  
week earlier than plants of the female parent selection.
3. Plants of the new *Chrysanthemum* and the female  
parent selection differ in ray floret color as plants of the  
female parent selection have pink-colored ray florets.



Plants of the new *Chrysanthemum* differ from plants of the male parent selection in the following characteristics:

1. Plants of the new *Chrysanthemum* have smaller inflorescences than plants of the male parent selection.
2. Plants of the new *Chrysanthemum* flower about two weeks earlier than plants of the male parent selection.

Plants of the new *Chrysanthemum* can be compared to plants of the *Chrysanthemum* cultivar Yojamestown, disclosed in U.S. Plant Pat. No. 14,813. In side-by-side comparisons conducted in Fort Myers, Fla., plants of the new *Chrysanthemum* differed from plants of the cultivar Yojamestown in the following characteristics:

1. Plants of the new *Chrysanthemum* were taller than plants of the cultivar Yojamestown.
2. Plants of the new *Chrysanthemum* flowered about one week earlier than plants of the cultivar Yojamestown.
3. Inflorescences of plants of the new *Chrysanthemum* and the cultivar Yojamestown differed in ray florets coloration.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall appearance of the new *Chrysanthemum*. These photographs show 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*.

The photograph on the first sheet comprises a side perspective view of typical flowering plants of 'Yomarquette'.

The photograph on the second sheet is a close-up view of typical inflorescences of 'Yomarquette'.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and measurements describe plants grown during the spring in Leamington, Ontario, Canada during the spring in a polycarbonate-covered greenhouse and under conditions and practices which approximate those generally used in commercial potted *Chrysanthemum* production. During the production of the plants, day temperatures averaged 22.5° C., night temperatures averaged 18° C. and light levels ranged from 4,000 to 6,000 foot candles. Four unrooted cuttings were directly stuck in 15-containers, exposed to long day/short night conditions, and pinched about two weeks later. At that time, the photoinductive short day/long night treatments were started. Plants used in the photographs and for the description were center-budded and were about two months old. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Chrysanthemum*×*morifolium* cultivar Yomarquette.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Chrysanthemum*×*morifolium* identified as code number YB-6275, not patented.

*Male, or pollen, parent.*—Proprietary selection of *Chrysanthemum*×*morifolium* identified as code number YB-5681, not patented.

Propagation:

*Type.*—Terminal vegetative cuttings.

*Time to initiate roots.*—About four days at temperatures of about 21° C.

*Time to produce a rooted young plant.*—About ten days at temperatures of about 21° C.

*Root description.*—Fine to thick, fibrous; white in color.

*Rooting habit.*—Freely branching; moderately dense.

Plant description:

*Appearance.*—Herbaceous decorative-type potted *Chrysanthemum* typically grown as a center-budded or as a natural spray type. Stems upright and outwardly spreading giving a uniformly mounded appearance to the plant. Freely branching habit, about four to five lateral branches develop after removal of terminal apex (pinching); dense and full plant habit. Strong and vigorous growth habit.

*Plant height.*—About 29 cm.

*Plant width.*—About 44 cm.

*Lateral branches.*—Length: About 24 cm. Diameter: About 4 mm. Internode length: About 1.5 cm. Strength: Strong. Texture: Pubescent. Color: Darker than 144A to 146A.

Foliage description:

*Arrangement.*—Alternate, simple.

*Length.*—About 5.7 cm.

*Width.*—About 4.2 cm.

*Apex.*—Cuspidate to mucronate.

*Base.*—Attenuate.

*Margin.*—Palmately lobed, sinuses between lateral lobes mostly divergent.

*Texture, upper and lower surfaces.*—Fine pubescence; veins prominent on lower surface.

*Color.*—Developing and fully expanded foliage, upper surface: Darker and more green than 147A; venation, 147A to 147B. Developing and fully expanded foliage, lower surface: Darker than 147B; venation, 147B.

*Petiole length.*—About 2 cm.

*Petiole diameter.*—About 3 mm.

*Petiole color.*—Close to 146B to 146C.

Inflorescence description:

*Appearance.*—Decorative-type inflorescence form with elongated oblong-shaped ray florets. Inflorescences borne on terminals above foliage. Disk and ray florets arranged acropetally on a capitulum. Inflorescence not fragrant. Typically grown as a center-budded or as a natural spray type.

*Flowering response.*—Under natural conditions, plants flower in the autumn/winter in the Northern Hemisphere. At other times of the year, inflorescence initiation and development can be induced under short day/long night conditions (at least 13.5 hours of darkness). Early flowering habit; plants exposed to two weeks of long day/short night conditions followed by photoinductive short day/long night conditions flower about seven weeks later.

*Postproduction longevity.*—Inflorescences maintain good color and substance for about three weeks in an interior environment.

*Quantity of inflorescences.*—Freely flowering, about nine to ten inflorescences develop per lateral stem, or about 36 to 50 inflorescences per plant.

*Inflorescence bud.*—Height: About 5 mm. Diameter: About 7 mm. Shape: Oblate. Color: Close to 146A to 147A.

*Inflorescence size*.—Diameter: About 5.7 cm. Depth (height): About 1.5 cm. Diameter of disc: About 1 cm; inconspicuous. Receptacle diameter: About 5 mm.

*Ray florets*.—Shape: Elongated-oblong. Orientation: Initially upright, then about 90° from vertical or perpendicular to peduncle. Aspect: Initially incurved, then mostly flat. Length: About 2.5 cm. Width: About 7.5 mm. Corolla tube length: About 3 mm. Apex: Acute, emarginate or cuspidate. Base: Attenuate; short corolla tube. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous, satiny. Number of ray florets per inflorescence: About 142 arranged in numerous rows. Color: When opening, upper surface: 71A. When opening, lower surface: 155D underlain with 77A. Fully opened, upper surface: 71A to 155D overlain with 71A. Fully opened, lower surface: 155D more faintly underlain with 77A.

*Disc florets*.—Arrangement: Massed at center of receptacle. Shape: Tubular, elongated. Apex: Five-pointed. Length: About 4 mm. Width: About 1 mm. Number of disc florets per inflorescence: About 24. Color: Immature: Close to 145A. Mature: Apex: 9A. Mid-section: 145D. Base: 155D.

*Phyllaries*.—Number of phyllaries per inflorescence: About 20. Length: About 5 mm. Width: About 2 mm. Shape: Linear. Apex: Acute. Base: Truncate. Texture, upper surface: Smooth, waxy. Texture, lower sur-

face: Pubescent. Color, upper surface: Close to 146A. Color, lower surface: Close to 146A to 147A.

*Peduncles*.—Length: First peduncle: About 5 cm. Fourth peduncle: About 6.25 cm. Seventh peduncle: About 9.4 cm. Diameter (first peduncle): About 2 mm. Angle: About 40° from vertical. Strength: Strong, flexible. Texture: Pubescent. Color: Close to 144A to 146A.

*Reproductive organs*.—Androecium: Present on disc florets only. Filament length: About 4 mm. Filament color: Close to 155D. Anther shape: Oblong. Anther color: Close to 12A. Pollen amount: None observed. Gynoecium: Present on both ray and disc florets. Pistil length: About 4 mm. Stigma shape: Bi-parted. Stigma color: Close to 12A. Style length: About 2.5 mm. Style color: Close to 145D. Ovary color: Close to 157A.

*Seed/fruit*.—Seed and fruit production has not been observed.

Disease/pest resistance: Resistance to pathogens and pests common to *Chrysanthemums* has not been observed on plants grown under commercial conditions.

Temperature tolerance: Plants of the new *Chrysanthemum* have demonstrated good tolerance to low temperatures of about 1° C. and high temperatures of about 38° C.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named 'Yomarquette' as illustrated and described.

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