

(12) **United States Plant Patent**
Vandenberg

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

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

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patent is extended or adjusted under 35
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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
‘Yodrum’, characterized by its upright plant habit; dark
green-colored foliage; freely and uniformly flowering habit;
decorative-type inflorescences; attractive dark orange-
colored ray florets; response time about 59 days; strong
peduncles; and good postproduction longevity.

1 Drawing Sheet

1

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

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 cut
flower and hereinafter referred to by the name ‘Yodrum’.

The new *Chrysanthemum* is a product of a planned
breeding program conducted by the Inventor in Salinas,
Calif. and Alva, Fla. The objective of the program is to
create and develop new cut *Chrysanthemum* cultivars having
inflorescences with desirable floret coloration and good
inflorescence form and substance.

The new *Chrysanthemum* originated from a cross-
pollination made by the Inventor in March, 1999, in Salinas,
Calif. of a proprietary selection of *Chrysanthemum*×
morifolium identified as code number R834, not patented, as
the female, or seed, parent with a proprietary selection of
Chrysanthemum×*morifolium* identified as code number
1092, 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 Alva, Fla. in March, 2000. The selection of
this plant was based on its desirable ray floret color and good
inflorescence form and substance.

Asexual reproduction of the new *Chrysanthemum* by
terminal cuttings in a controlled environment in Alva, Fla.
since May, 2000, has shown that the unique features of this
new *Chrysanthemum* are stable and reproduced true to type
in successive generations.

SUMMARY OF THE INVENTION

Plants of the cultivar Yodrum 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.

2

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

1. Upright plant habit.
2. Dark green-colored foliage.
3. Freely and uniformly flowering habit.
4. Decorative-type inflorescences that are about 6 cm to 7
cm in diameter.
5. Attractive dark orange-colored ray florets.
6. Response time about 59 days.
7. Strong peduncles.
8. Good postproduction longevity with inflorescences and
foliage maintaining good substance and color for about
two 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 shorter than
plants of the female parent selection.
2. Plants of the new *Chrysanthemum* are more freely
flowering than plants of the female parent selection.
3. Plants of the new *Chrysanthemum* flower earlier than
plants of the female parent selection.

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

1. Plants of the new *Chrysanthemum* are shorter than
plants of the male parent selection.
2. Plants of the new *Chrysanthemum* flower earlier and
more freely than plants of the male parent selection.
3. Plants of the new *Chrysanthemum* and the male parent
selection differ in ray floret color as plants of the male
parent selection have light pink-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to
plants of the *Chrysanthemum* cultivar Falma, disclosed in
U.S. Plant Pat. No. 5,996. In side-by-side comparisons
conducted in Alva, Fla. plants of the new *Chrysanthemum*
differed from plants of the cultivar Falma in the following
characteristics:

1. Plants of the new *Chrysanthemum* flowered earlier and more freely than plants of the cultivar Falma.
2. Plants of the new *Chrysanthemum* had slightly larger inflorescences than plants of the cultivar Falma.
3. Plants of the new *Chrysanthemum* had shorter peduncles than plants of the cultivar Falma.

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 at the top of the sheet comprises a side perspective view of a typical flowering stem of 'Yodrum'.

The photograph at the bottom of the sheet comprises a close-up view of typical inflorescences of 'Yodrum'.

DETAILED BOTANICAL DESCRIPTION

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. The aforementioned photographs and following observations and measurements describe plants grown in Bogota, Colombia during the summer in a polyethylene-covered greenhouse and under conditions and practices which approximate those generally used in commercial *Chrysanthemum* production. During the production of the cut flowers, day temperatures ranged from 20° C. to 25° C., night temperatures ranged from 4° C. to 9° C. and light levels ranged from 3,000 to 4,000 footcandles. Measurements and numerical values represent averages for typical flowering plants. The photographs and measurements were taken when plants were about two months old from planting.

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

Parentage:

Female, or seed, parent.—Proprietary selection of *Chrysanthemum*×*morifolium* identified as code number R834, not patented.

Male, or pollen, parent.—Proprietary selection of *Chrysanthemum*×*morifolium* identified as code number 1092, not patented.

Propagation:

Type.—Terminal vegetative cuttings.

Time to initiate roots.—About ten to 14 days with soil temperatures of about 18° C. to 21° C.

Root description.—Fine, fibrous; white in color.

Rooting habit.—Freely branching.

Plant description:

Appearance.—Herbaceous decorative-type cut flower.

Flowering stem description.—Aspect: Erect. Length: About 101 cm. Spray diameter: About 11.25 cm. Stem diameter: About 7 mm. Internode length: About 4 cm. Texture: Pubescent; longitudinally ridged. Color: 147B.

Foliage description.—Arrangement: Alternate; simple. Length: About 8.9 cm. Width: About 5.3 cm. Apex: Cuspidate. Base: Truncate. Margin: Palmately lobed; irregularly serrate; sinuses parallel to slightly divergent. Texture, upper and lower surfaces: Pubescent;

veins prominent on lower surface. Color: Developing foliage, upper surface: 147A. Developing foliage, lower surface: Slightly lighter than 147A. Fully expanded foliage, upper surface: 147A; venation, 147C. Fully expanded foliage, lower surface: 147B; venation, 147C. Petiole: Length: About 2.5 cm. Diameter: About 3 mm. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: 147B.

Inflorescence description:

Appearance.—Decorative-type inflorescence form with elongated oblong-shaped ray florets. Inflorescences borne on terminals, arising from leaf axils. Ray and disc florets develop acropetally on a capitulum. Uniform flowering habit.

Fragrance.—None detected.

Flowering response.—Under natural conditions, plant 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). Plants exposed to two weeks of long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about 59 days later.

Postproduction longevity.—In an interior environment, inflorescences and foliage will maintain good color and substance for about two weeks in an interior environment.

Quantity of inflorescences.—Freely flowering habit, about 12 to 13 inflorescences per stem develop.

Inflorescence size.—Diameter: About 6 cm to 7 cm. Depth (height): About 2.8 cm. Disc diameter: About 3 mm. Receptacle diameter: About 2.2 cm. Receptacle height: About 8 mm.

Inflorescence buds.—Shape: Ovoid. Height: About 1.8 cm. Diameter: About 1.8 cm. Color: 164B.

Ray florets.—Shape: Elongated oblong to ligulate and occasionally quilled. Surface: Concave. Aspect: Initially incurved, with development, about 45° to 55° from vertical. Length: About 3.2 cm. Width: About 1 cm. Apex: Emarginate. Base: Fused. Texture: Smooth, glabrous; velvety; longitudinally ridged. Number of ray florets per inflorescence: About 208 arranged in about 20 whorls. Color: When opening, upper surface: 171A. When opening, lower surface: 173C. Fully opened, upper surface: 168A to 168B; color becoming closer to 167A with development. Fully opened, lower surface: 162B; color becoming tinted with 167C with development.

Disc florets.—Shape: Tubular, elongated. Length: About 4 mm. Diameter: About 1 mm. Number of disc florets per inflorescence: About 26; inconspicuous. Color: Apex: Close to 145A. Mid-section: Close to 145C. Base: Close to 145D.

Phyllaries.—Quantity per inflorescence/arrangement: About 24 arranged in about three whorls. Length: About 7 mm. Width: About 3 mm. Shape: Elliptic. Apex: Acute. Base: Truncate. Margin: Entire. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Pubescent. Color, upper surface: Close to 146A. Color, lower surface: Close to 147A.

Peduncles.—Length: About 9.4 cm. Diameter: About 2 mm. Angle: About 45° from vertical. Strength: Strong. Texture: Pubescent; longitudinally ridged. Color: Close to 148A.

Reproductive organs.—Androecium: None observed. Gynoecium: Pistil length: About 6 mm. Stigma

5

shape: Bi-parted. Stigma color: Close to 150A. Style length: About 3 mm. Style color: Close to 150B. 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.

6

Temperature tolerance: Plants of the new *Chrysanthemum* have demonstrated good tolerance to low temperatures of about 4° C. and high temperatures of about 35° C.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named ‘Yodrum’ as illustrated and described.

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