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**Smith**

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

(75) Inventor: **Mark A. Smith**, Fort Myers, FL (US)

(73) Assignee: **Yoder Brothers, Inc.**, Barberton, OH  
(US)

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*Primary Examiner*—Bruce R. Campell

*Assistant Examiner*—Annette H. Para

(74) *Attorney, Agent, or Firm*—C. A. Whealy

(57) **ABSTRACT**

A distinct cultivar of Chrysanthemum plant named  
‘Yoheidi’, characterized by its upright, mounded and  
rounded plant habit; freely branching habit; dense and full  
plants; uniform and freely flowering habit; decorative-type  
inflorescences; bright yellow-colored ray florets; and early  
flowering, natural season flowering in mid-September in the  
Northern Hemisphere.

**1 Drawing Sheet**

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**BOTANICAL CLASSIFICATION/CULTIVAR  
DESIGNATION**

*Chrysanthemum*×*morifolium* cultivar Yoheidi.

**BACKGROUND OF THE INVENTION**

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

The new cultivar is a product of a planned breeding  
program conducted by the Inventor in Salinas, Calif. and  
Alva, Fla. The objective of the breeding program is to create  
new garden-type Chrysanthemum cultivars having inflores-  
cences with desirable inflorescence forms, attractive floret  
colors and good garden performance.

The new Chrysanthemum originated from a cross made in  
March, 1999, in Salinas, Calif., of the Chrysanthemum  
cultivar Jessica, disclosed in U.S. Plant Pat. No. 7,587, as the  
female, or seed, parent with a proprietary Chrysanthemum  
selection identified as code number 93-L284001, not  
patented, as the male, or pollen, parent. The new Chrysan-  
themum was discovered and selected by the Inventor as a  
single flowering plant within the progeny of the stated cross  
grown in a controlled environment in Alva, Fla. in October,  
2000. The selection of this plant was based on its desirable  
inflorescence form, attractive ray floret color and good  
garden performance.

Asexual reproduction of the new cultivar by terminal  
cuttings taken in a controlled environment in Alva, Fla. since  
January, 2001, has shown that the unique features of this  
new Chrysanthemum are stable and reproduced true to type  
in successive generations.

**SUMMARY OF THE INVENTION**

The cultivar Yoheidi 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.

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

1. Upright, mounded and rounded plant habit.
2. Freely branching habit; dense and full plants.
3. Uniform and freely flowering habit.
4. Decorative-type inflorescences.
5. Bright yellow-colored ray florets.
6. Early flowering; natural season flowering in mid-  
September in the Northern Hemisphere.

In side-by-side comparisons conducted in Alva, Fla.,  
plants of the new Chrysanthemum differed from plants of the  
female parent, the cultivar Jessica, in the following charac-  
teristics:

1. Plant habit of plants of the new Chrysanthemum was  
more uniform than plant habit of plants of the cultivar  
Jessica.
2. Plants of the new Chrysanthemum were smaller than  
plants of the cultivar Jessica.
3. Plants of the new Chrysanthemum flowered more  
uniformly than plants of the cultivar Jessica.
4. Ray floret color of plants of the new Chrysanthemum  
was slightly darker yellow than ray floret color of plants of  
the cultivar Jessica.

In side-by-side comparisons conducted in Alva, Fla.,  
plants of the new Chrysanthemum differed from plants of the  
male parent, the selection 93-L284001, in the following  
characteristics:

1. Plants of the new Chrysanthemum did not have con-  
spicuous disc florets whereas plants of the selection  
93-L284001 had conspicuous disc florets.
2. Inflorescences of plants of the new Chrysanthemum  
were longer-lasting than inflorescences of plants of the  
selection 93-L284001.

Plants of the new Chrysanthemum can be compared to  
plants of the cultivar Yellow Urano, not patented. In side-  
by-side comparisons conducted in Alva, Fla., plants of the



new Chrysanthemum differed from plants of the cultivar Yellow Urano in the following characteristics:

1. Plants of the new Chrysanthemum were smaller than plants of the cultivar Yellow Urano.
2. Ray floret color of plants of the new Chrysanthemum was slightly darker yellow than ray floret color of plants of the cultivar Yellow Urano.
3. Plants of the new Chrysanthemum did not have conspicuous disc florets whereas plants of the cultivar Yellow Urano had conspicuous disc florets.
4. Plants of the new Chrysanthemum flowered about one week earlier than plants of the cultivar Yellow Urano when grown under natural season conditions.

#### 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 plant of 'Yoheidi'.

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

#### 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 following observations and measurements describe plants grown in a fiberglass-covered greenhouse in Alva, Fla. under practices which approximate those generally used in commercial garden-type Chrysanthemum production. One cutting was directly stuck in a 15.25-cm container in November, 2001, and exposed to long day/short night conditions. Plants were pinched once about five weeks after sticking. About one week after the pinch, the photoinductive short day/long night treatments were started. During the production of the plants, day temperatures averaged about 27° C. and night temperatures averaged about 21 ° C. Measurements and numerical values represent averages for typical flowering plants.

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

Commercial classification: Decorative-type garden Chrysanthemum.

Parentage:

*Female, or seed, parent.*—*Chrysanthemum*×*morifolium* cultivar Jessica, disclosed in U.S. Plant Pat. No. 7,587.

*Male, or pollen, parent.*—Proprietary selection of *Chrysanthemum*×*morifolium* identified as code number 93-L284001, not patented.

Propagation:

*Type.*—Terminal tip cuttings.

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

*Time to produce a rooted cutting.*—About ten to twelve days at 21° C.

*Root description.*—White, fine and fibrous.

*Rooting habit.*—Freely branching.

Plant description:

*Appearance.*—Perennial herbaceous decorative-type garden Chrysanthemum. Inverted triangle. Stems initially upright, then somewhat outwardly spreading giving a uniformly mounded to rounded appearance to the plant. Freely branching with about six lateral branches forming after the pinch.

*Plant height.*—About 16 cm.

*Plant diameter.*—About 21 cm.

*Lateral branches.*—Length: About 13 cm. Diameter: About 2 mm. Internode length: About 1 cm. Aspect: Mostly upright. Texture: Pubescent. Color: 146A.

*Foliage description.*—Leaf arrangement: Alternate. Length: About 4 cm. Width: About 3.6 cm. Apex: Cuspidate. Base: Truncate. Margin: Palmately lobed, sinuses mostly divergent. Texture: Both surfaces, pubescent; veins prominent on lower surface. Color: Young and fully expanded foliage, upper surface: 147A. Young and fully expanded foliage, lower surface: 147B. Venation, upper surface: 147A. Venation, lower surface: 147B. Petiole length: About 1.2 cm. Petiole diameter: About 2 mm. Petiole color, upper and lower surfaces: 146A.

Inflorescence description:

*Appearance.*—Decorative-type inflorescence form with elongated oblong-shaped ray florets. Inflorescences borne on terminals above foliage, arising from leaf axils. Disk and ray florets arranged acropetally on a capitulum. About 11 inflorescences per lateral.

*Flowering response.*—Under natural season conditions, plants flower in mid-September in the Northern Hemisphere and continue to flower for at least three weeks depending on weather conditions.

*Inflorescence bud (before showing color).*—Height: About 4 mm. Diameter: About 5 mm. Shape: Oblate. Phyllary color: Close to 147A.

*Inflorescence size.*—Diameter: About 4.4 cm. Depth (height): About 2.4 cm. Disc diameter: About 6 mm. Receptacle diameter: About 3.5 mm.

*Ray florets.*—Shape: Elongated oblong. Length: About 2.2 cm. Corolla tube length: About 3 mm. Width: About 4 mm. Apex: Emarginate. Margin: Entire. Texture: Smooth, glabrous, satiny. Surface: Mostly flat. Orientation: Initially upright, then perpendicular to the peduncle. Number of ray florets per inflorescence: About 95. Color: When opening and fully opened, upper surface: 9A. When opening and fully opened, lower surface: 9C.

*Disc florets.*—Shape: Tubular, apex dentate. Length: About 3 mm. Width: Apex: About 1.25 mm. Base: About 1 mm. Number of disc florets per inflorescence: About 37. Color: Immature: 10C. Mature: Apex: 9A. Mid-section: 144C to 144D. Base: 155D.

*Phyllaries.*—Length: About 6 mm. Width: About 2 mm. Shape: Ligulate. Apex: Acute. Base: Truncate. Margin: Entire. Texture: Upper surface, smooth and waxy; lower surface, pubescent. Color, upper surface: 146A. Color, lower surface: Close to 147A.

*Peduncle.*—Aspect: Flexible, angled about 45° from vertical. Length: First peduncle: About 2.1 cm. Fourth peduncle: About 2.7 cm. Diameter: About 1.5 mm. Texture: Pubescent. Color: 146A.

*Reproductive organs.*—Androecium: Present on disc florets only. Anther color: 12A. Pollen: None observed. Gynoecium: Present on both ray and disc florets. Stigma color: 9A.

*Seed.*—Seed production has not been observed.

Disease/pest resistance: Plants of the new Chrysanthemum have not been shown to be resistant to pathogens and pests common to Chrysanthemums.

Garden performance: Plants of the new Chrysanthemum have been observed to be tolerant to rain, wind and temperatures ranging from 0 to higher than 40° C.

It is claimed:

1. A new and distinct cultivar of Chrysanthemum plant named ‘Yoheidi’, as illustrated and described.

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