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**Vandenberg**

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

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(\* ) **Notice:** Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
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(56) **References Cited**

U.S. PATENT DOCUMENTS

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\* cited by examiner

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(57) **ABSTRACT**

A distinct cultivar of Chrysanthemum plant named 'Focus', characterized by its button pompon-type inflorescences that are about 3.5 cm in diameter; attractive bright yellow-colored ray florets; early flowering, response time about 52 days; dark green foliage; strong stems; and good postproduction longevity with inflorescences maintaining good substance and color for about three or four weeks in an interior environment.

**2 Drawing Sheets**

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**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar of Chrysanthemum plant, botanically known as *Chrysanthemum x morifolium* and hereinafter referred to by the name 'Focus'.

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

The new Chrysanthemum originated from a cross made by the Inventor in October, 1994, in Salinas, Calif., of a proprietary Chrysanthemum seedling selection identified as B498, not patented, as the female, or seed, parent with a proprietary Chrysanthemum seedling selection identified as 2642, not patented, as the male, or pollen, parent.

The cultivar Focus was discovered and selected by the Inventor as a flowering plant within the progeny of the stated cross in a controlled environment in Salinas, Calif., in August, 1996. The selection of this plant was based on its desirable inflorescence colors and good form and substance.

Asexual reproduction of the new Chrysanthemum by terminal cuttings taken in a controlled environment in Salinas, Calif., 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 Focus 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 'Focus'.

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These characteristics in combination distinguish 'Focus' as a new and distinct cultivar:

1. Button pompon-type inflorescences that are about 3.5 cm in diameter.
2. Attractive bright yellow-colored ray florets.
3. Early flowering, response time about 52 days.
4. Dark green foliage.
5. Thick and strong stems.
6. Good postproduction longevity with inflorescences maintaining good substance and color for about three or four weeks in an interior environment.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying colored photographs illustrate 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.

The photograph on the first sheet comprises a side perspective view of a typical flowering stem of 'Focus' grown as a spray-type cut Chrysanthemum.

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

**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 Salinas, Calif., under conditions which approximate commercial practice in a double-layer polyethylene-covered greenhouse. Two-week old rooted cuttings were planted on Feb. 10, 2000 and received 18 long



day/short nights followed by short day/long nights until flowering. Plants were grown as single-stem spray-type cut chrysanthemums. During the production time, the following environmental conditions were measured: day temperatures, 18 to 27° C.; night temperatures, 16 to 18° C.; and light levels, 2,000 to 4,000 foot-candles. Measurements and numerical values represent averages for six to ten typical flowering stems and were taken during the week of Apr. 24, 2000.

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

Commercial classification: Button pompon-type cut Chrysanthemum.

Parentage:

*Female or seed parent*.—Proprietary *Chrysanthemum* × *morifolium* seedling selection identified as code number B498, not patented.

*Male or pollen parent*.—Proprietary *Chrysanthemum* × *morifolium* seedling selection identified as code number 2642, not patented.

Propagation:

*Type*.—Terminal tip cuttings.

*Time to rooting*.—Seven to ten days with soil temperatures of 21° C.

*Root description*.—Fine, fibrous and well-branched.

Plant description:

*Appearance*.—Herbaceous button pompon-type cut flower.

*Flowering stem description*.—Aspect: Erect. Length: About 91.4 cm. Spray width: About 13.5 cm. Diameter: About 6.5 mm. Internode length: About 3.8 cm. Texture: Pubescent. Color: Close to 146B.

*Foliage description*.—Arrangement: Alternate. Length: About 8.6 cm. Width: About 7.5 cm. Apex: Cupidate to mucronate. Base: Mostly truncate. Margin: Palmately lobed; sinuses divergent. Texture: Upper and lower surfaces pubescent; glossy; thick; veins prominent on lower surface. Color: Young foliage upper surface: Darker than 147A. Young foliage lower surface: Darker than 147B. Mature foliage upper surface: Darker than 147A; venation, close to 147A to 147B. Mature foliage lower surface: Close to 147B; venation, close to 147B. Petiole: Length: About 2 cm. Diameter: About 3 mm. Color: Close to 147B.

Flowering description:

*Appearance*.—Button pompon-type inflorescence form with elongated oblong-shaped ray florets. Inflorescences borne on terminals, arising from leaf axils. Disc and ray florets arranged acropetally on a capitulum.

*Flowering response*.—Under natural conditions, plant flowers 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 about two to three weeks of long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about 52 days later.

*Postproduction longevity*.—In an interior environment, flowering stems will maintain good color and substance for about three or four weeks in an interior environment after one week of cool storage.

*Quantity of inflorescences*.—Freely flowering with about 12 inflorescences per flowering stem.

*Inflorescence size*.—Diameter: About 3.5 cm. Depth (height): About 1.65 cm. Diameter of disc: Less than 3 mm, inconspicuous. Diameter of receptacle: About 9 mm.

*Ray florets*.—Shape: Elongated oblong, fused at base. Length: About 1.3 cm. Width: About 6 mm. Corolla tube length: About 5 mm. Corolla tube width, at base: About 1.5 mm. Apex: Emarginate. Base: Fused. Texture: Satiny, smooth, glabrous. Aspect: Initially upright; when mature, about 90° from vertical. Number of ray florets per inflorescence: About 225 arranged in numerous rows. Color: When opening, upper and lower surfaces: Initially yellowish green, more yellow than 144A; becoming bright yellow, 9A. Mature, upper surface: Bright yellow, 9A to brighter than 12A. Mature, lower surface: Bright yellow, 9A.

*Disc florets*.—Shape: Tubular; slightly flared at apex. Length: About 6 mm. Width: Apex: About 1.5 mm. Base: About 1 mm. Number of disc florets per inflorescence: Massed at center of receptacle, less than 10. Color: Immature: 144A. Mature: Apex: 9A. Mid-section and base: 155D.

*Peduncle*.—Aspect: Strong, angled about 40° from vertical. Length: First peduncle: About 7.3 cm. Fourth peduncle: About 12.5 cm. Seventh peduncle: About 16.7 cm. Diameter: About 2.25 mm. Texture: Very fine pubescence. Color: 146B.

*Reproductive organs*.—Androecium: Present on disc florets only. Anther color: 9A. Amount of pollen: Scarce. Pollen color: 14A. Gynoecium: Present on both ray and disc florets.

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

Disease resistance: Resistance to pathogens 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 night temperatures as low as 5° C. and day temperatures lower than 40° C. It is claimed:

1. A new and distinct cultivar of Chrysanthemum plant named 'Focus', as illustrated and described.

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