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**VandenBerg**

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

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(57) **ABSTRACT**

A distinct cultivar of Chrysanthemum plant named 'Factor', characterized by its large daisy-type inflorescences that are about 8 cm in diameter; attractive bright yellow ray and bright green to bright yellow disc florets; freely flowering with numerous inflorescences per stem; early flowering, response time about 51 days; dark green foliage; strong stems; and excellent postproduction longevity with inflorescences maintaining good substance and color for about four weeks in an interior environment.

**3 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 *Dendranthema grandiflora* and referred to by the cultivar name Factor.

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 May, 1995, in Salinas, Calif., of a proprietary Chrysanthemum seedling selection identified as 2455 as the female, or seed, parent with a proprietary Chrysanthemum seedling selection identified as 1849, as the male, or pollen, parent.

The cultivar Factor was discovered and selected by the Inventor as a flowering plant within the progeny of the stated cross in a controlled environment in Alva, Fla., in March, 1996. The selection of this plant was based on its desirable inflorescence color and good form and substance.

Asexual reproduction of the new Chrysanthemum by terminal cuttings taken in a controlled environment in Alva, Fla., 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 Factor 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 'Factor'. These characteristics in combination distinguish 'Factor' as a new and distinct cultivar:

1. Large daisy-type inflorescences that are about 8 cm in diameter.

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2. Attractive bright yellow ray and bright green to bright yellow disc florets. Disc florets are slow to mature and maintain green coloration for a long period of time.

3. Freely flowering with numerous inflorescences per stem.

4. Early flowering, response time about 51 days.

5. Dark green foliage.

6. Strong stems.

7. Excellent postproduction longevity with inflorescences maintaining good substance and color for about 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.

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

The photograph on the second sheet comprises a top perspective view of typical inflorescences of the cultivar Factor.

The photograph at the top of the third sheet comprises a close-up view of upper and lower surfaces of typical inflorescences of the cultivar Factor.

The photograph at the bottom of the third sheet comprises a close-up view of typical young and mature leaves of the cultivar Factor. Floret and foliage colors in the photographs may differ from the actual colors due to light reflectance.

**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. 11, 1999 and received 21 long day/short nights followed by short day/long nights until flowering. Plants were grown as single-stem cut Chrysanthemums. During the production time, the following environmental conditions were measured: day temperatures ranging from 18 to 27° C.; night temperatures ranging from 16 to 18° C.; and light level of about 2,000 to 4,000 foot-candles. Measurements and numerical values represent averages for six to ten typical flowering stems.

Botanical classification: *Dendranthema grandiflora* cultivar Factor.

Commercial classification: Daisy spray-type cut Chrysanthemum with oblong-shaped ray florets.

Parentage:

*Female or seed parent.*—Proprietary *Dendranthema grandiflora* seedling selection, code number 2455.

*Male or pollen parent.*—Proprietary *Dendranthema grandiflora* seedling selection, code number 1849.

Propagation:

*Type.*—Terminal tip cuttings.

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

*Rooting habit.*—Fine, fibrous and well-branched.

Plant description:

*Appearance.*—Perennial herbaceous daisy spray-type cut flower. Stems upright, uniform habit and freely branching.

*Flowering stem length.*—About 86 cm.

*Stem color.*—Slightly darker than 144A.

*Foliage description.*—Arrangement: Alternate. Length: About 9.7 cm. Width: About 7.2 cm. Apex: Cuspidate. Base: Truncate. Margin: Palmately lobed. Texture: Upper and lower surfaces slightly pubescent. Veins prominent on lower surface. Color: Young foliage upper surface: Darker than 147A. Young foliage lower surface: Darker than 147B. Mature foliage upper surface: 147A. Mature foliage lower surface: 147B. Venation upper surface: 147A-147B. Venation lower surface: 147B. Petiole: Length: About 2.3 cm. Diameter: About 4 mm. Color: Upper, 147B; lower, 147B; margins, 147A.

Flowering description:

*Appearance.*—Daisy spray-type inflorescence form with 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 three weeks of long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about 51 days later.

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

*Quantity of inflorescences.*—Floriferous with about 15 inflorescences per flowering stem.

*Inflorescence size.*—Diameter: About 8 cm. Depth (height): About 1.75 cm. Diameter of disc: About 1.8 cm. Diameter of receptacle: About 8.5 mm.

*Ray florets.*—Shape: Oblong, mostly flat, longitudinally ribbed. Length: About 3.5 cm. Width: About 1.3 cm. Apex: Rounded to slightly dentate. Base: Attenuate. Margin: Entire. Texture: Satiny, smooth, glabrous. Aspect: Initially upright; lower rays perpendicular to peduncle, inner rays 10 to 30° to peduncle. Number of ray florets per inflorescence: About 36. Color: When opening, upper surface: 9A. When opening, lower surface: 9B. Mature, upper surface: 9A. Mature, lower surface: 9B.

*Disc florets.*—Shape: Tubular. Length: About 8 mm. Width: Apex, about 1.5 mm; base, about 1 mm. Number of disc florets per inflorescence: Numerous, typically more than 125. Color: Immature: Green, 144A. Mature: Disc florets are slow to mature and maintain green coloration for a long period of time. Apex: Close to 9A. Base: White.

*Peduncle.*—Aspect: Strong and angled about 35 to 40° to the stem. Length: First peduncle: About 8 cm. Fourth peduncle: About 16.5 cm. Seventh peduncle: About 21 cm. Texture: Very fine pubescence. Color: Slightly darker than 144A.

*Reproductive organs.*—Androecium: Present on disc florets only. Anther color: 9A. Amount of pollen: Scarce. Pollen color: 13A to 17A. Gynoecium: Present on both ray and disc florets.

Disease resistance: Resistance to diseases 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 temperatures as low as 5° C.

Seed production: Seed production has not been observed.

It is claimed:

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

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