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**VandenBerg**

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

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(57) **ABSTRACT**

A distinct cultivar of Chrysanthemum plant named ‘Class’, characterized by its decorative-type inflorescences that are about 6.5 cm in diameter; attractive white ray florets; very floriferous with numerous inflorescences per stem; early flowering, response time about 50 days; dark green foliage; strong stems; and good postproduction longevity with inflorescences maintaining good substance and color for about three 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 Class.

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 January, 1994, in Salinas, Calif., of the Chrysanthemum cultivar Sonata, disclosed in U.S. Plant Pat. No. 9,810, as the female, or seed, parent with a proprietary Chrysanthemum seedling selection identified as 2729, as the male, or pollen, parent.

The cultivar Class 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 November, 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 Class 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 ‘Class’. These characteristics in combination distinguish ‘Class’ as a new and distinct cultivar:

1. Decorative-type inflorescences that are about 6.5 cm in diameter.
2. Attractive pure white ray florets.

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3. Very floriferous with numerous inflorescences per stem.
4. Early flowering.
5. Dark green foliage.
6. Strong stems.
7. Good postproduction longevity with inflorescences maintaining good substance and color for about three 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 ‘Class’ grown as a spray-type cut Chrysanthemum.

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

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 Class.

The photograph at the bottom of the third sheet comprises a close-up view of typical young and mature leaves of the cultivar Class. 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 Class.

Commercial classification: Decorative spray-type cut Chrysanthemum with elliptic-shaped ray florets.

Parentage:

*Female or seed parent.*—*Dendranthema grandiflora* cultivar Sonata, disclosed in U.S. Plant Pat. No. 9,810.

*Male or pollen parent.*—Proprietary *Dendranthema grandiflora* seedling selection, code number 2729.

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 decorative spray-type cut flower. Stems upright, uniform habit and freely branching.

*Flowering stem length.*—About 107 cm.

*Stem color.*—144A.

*Foliage description.*—Arrangement: Alternate. Length: About 8.6 cm. Width: About 7.4 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: 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 3.4 cm. Diameter: About 3 mm. Color: Upper, 147B-147C; lower, 147B; margins, 147A.

Flowering description:

*Appearance.*—Decorative spray-type inflorescence form with elliptic-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 50 days later.

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

*Quantity of Inflorescences.*—Very floriferous with about 21 inflorescences per flowering stem.

*Inflorescence size.*—Diameter: About 6.5 cm. Depth (height): About 2 cm. Diameter of disc: Inconspicuous, about 3 mm. Diameter of receptacle: About 8.5 mm.

*Ray florets.*—Shape: Elliptic. Length: About 3 cm. Width: About 1.1 cm. Apex: Rounded, pointed or dentate. Base: Attenuate. Margin: Entire. Texture: Satiny, smooth, glabrous. Aspect: Initially upright, then perpendicular to peduncle. Number of ray florets per inflorescence: Numerous, typically more than 175. Color: When opening, upper surfaces: 155D. When opening, lower surface: 155D. Mature, upper surface: 155D. Mature, lower surface: 155D.

*Disc florets.*—Shape: Elongated, tubular. Length: About 6 mm. Width: Apex, about 1.5 mm; base, about 1 mm. Number of disc florets per inflorescence: Few, typically about 10 or less. Color: Immature: Green, 144A. Mature: Apex: Yellow, 9A. Mid-section/base: White.

*Peduncle.*—Aspect: Strong; angled about 55 to 60° to the stem. Length: First peduncle: About 8.6 cm. Fourth peduncle: About 13.2 cm. Seventh peduncle: About 16.5 cm. Texture: Very fine pubescence. Color: 144A.

*Reproductive organs.*—Androecium: Present on disc florets only. Anther color: 13A. Amount of pollen: Moderate. Pollen color: 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 'Class', as illustrated and described.

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