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(12) **United States Plant Patent**
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- (54) **CHRYSANTHEMUM PLANT NAMED 'GREEN BAY'**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
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- (51) Int. Cl.⁷ **A01H 5/00**
- (52) U.S. Cl. **Plt./287**

1**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 Green Bay.

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 December, 1993, in Salinas, Calif., of a proprietary Chrysanthemum seedling selection identified as 0429, as the female, or seed, parent with a proprietary Chrysanthemum seedling selection identified as 0589, as the male, or pollen, parent.

The cultivar Green Bay 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, 1995. 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 Green Bay 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 'Green Bay'. These characteristics in combination distinguish 'Green Bay' as a new and distinct cultivar:

1. Decorative-type inflorescences that are about 5.3 cm in diameter.

- (58) **Field of Search** Plt./287, 288

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(57) ABSTRACT

A distinct cultivar of Chrysanthemum plant named 'Green Bay', characterized by its decorative-type inflorescences that are about 5.3 cm in diameter; attractive ray florets that are initially green becoming white giving the inflorescences a bi-colored appearance; 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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2. Attractive ray florets that are initially green and mature slowly; with development, ray florets become white giving a bi-colored appearance to the inflorescence.
3. 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 PHOTOGRAPH

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 'Green Bay' grown as a spray-type cut Chrysanthemum.

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

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

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

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

Parentage:

Female or seed parent.—Proprietary *Dendranthema grandiflora* seedling selection, code No. 0429.

Male or pollen parent.—Proprietary *Dendranthema grandiflora* seedling selection, code No. 0589.

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 96.5 cm.

Stem color.—Close to 144A.

Foliage description.—Arrangement: Alternate. Length: About 9.3 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 upper surface: 147B. Venation upper surface: 147B. Venation lower surface: 147B-147C. Petiole: Length: About 1.75 cm. Diameter: About 4 mm. Color: Upper, 147C; lower, 147C; margins, 147A.

Flowering description:

Appearance.—Decorative spray-type inflorescence form with oblong-shaped ray florets. Inflorescence 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.—Numerous, about 14 inflorescences per flowering stem.

Inflorescence size.—Diameter: About 5.3 cm. Depth (height): About 2.1 cm. Diameter of disc: Inconspicuous, about 2.5 mm. Diameter of receptacle: About 6.5 mm.

Ray florets.—Shape: Oblong. Length: About 2.2 cm. Width: About 9 mm. Apex: Rounded to dentate. Base: Attenuate. Margin: Entire. Texture: Satiny, smooth, glabrous. Aspect: Initially upright, then perpendicular to peduncle. Number of ray florets per inflorescence: Numerous, full inflorescences, typically more than 250. Color: When opening: Green, 144A, ray florets are slow to mature giving a bi-colored appearance to the inflorescences. Mature, upper and lower surfaces: Apex, light green, close to 145B-145C, to lighter green, 144B-144D, to white, 155D, towards base. Ray florets eventually become completely white, 155D.

Disc florets.—Shape: Tubular. Length: About 3 mm. Width: Apex, about 1 mm; base, about 1 mm. Number of disc florets per inflorescence: Few, typically less than five. Color: Immature: Green, 144A. Mature: Apex: 154A. Mid-section/base: White.

Peduncle.—Aspect: Strong and angled about 30° to the stem. Length: First peduncle: About 9.6 cm. Fourth peduncle: About 13 cm. Seventh peduncle: About 17 cm. Texture: Very fine pubescence. Color: Close to 144A.

Reproductive organs.—Androecium: Present on disc florets only. Anther color: 154A. Amount of pollen: None observed. 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 'Green Bay', as illustrated and described.

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