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VandenBerg

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(54) CHRYSANTHEMUM PLANT NAMED 'SPRING'

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(57) ABSTRACT

A distinct cultivar of Chrysanthemum plant named 'Spring', characterized by its quilled decorative-type inflorescences that are about 6.6 cm in diameter; attractive light pink-colored ray florets; early flowering, response time about 51 days; dark green foliage; strong stems; and good postproduction longevity with inflorescences maintaining good substance and color for at least three 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 *Chrysan-themum*×*morifolium* and hereinafter referred to by the name 'Spring'.

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 10 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 0994, not patented, as the female, or seed, parent with a 15 proprietary Chrysanthemum seedling selection identified as 1639, not patented, as the male, or pollen, parent.

The cultivar Spring 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 April, ²⁰ 1995. 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 Spring 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 'Spring'. These characteristics in combination distinguish 'Spring' as a new and distinct cultivar:

- 1. Quilled decorative-type inflorescences that are about 6.6 cm in diameter.
- 2. Attractive light pink-colored ray florets.

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- 3. Early flowering, response time about 51 days.
- 4. Dark green foliage.
- 5. Thick and strong stems.
- 6. Good postproduction longevity with inflorescences maintaining good substance and color for at least 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. 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 'Spring' grown as a spray-type cut Chrysanthemum.

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

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. 30 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 Jun. 7, 2000 and received 12 long 35 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 40 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 Aug. 25, 2000.

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

Commercial classification: Quilled decorative-type cut Chrysanthemum.

Parentage:

Female or seed parent.—Proprietary Chrysanthemum× morifolium seedling selection identified as code number 0994, not patented.

Male or pollen parent.—Proprietary Chrysanthemum× morifolium seedling selection identified as code number 1639, 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 quilled decorative-type cut flower.

Flowering stem description.—Aspect: Erect. Length: About 94 cm. Diameter: About 7.5 mm. Texture: Pubescent. Color: Close to 146A.

Foliage description.—Arrangement: Alternate. Length: About 9.8 cm. Width: About 8.7 cm. Apex: Cuspidate to mucronate. Base: Mostly truncate. Margin: Palmately lobed; sinuses convergent and overlapping. Texture: Upper and lower surfaces pubescent; veins prominent on lower surface. Color: Young foliage upper surface: 147A. Young foliage lower surface: 147B. Mature foliage upper surface: 147A; venation, close to 147B. Mature foliage lower surface: Close to 147B; venation, close to 147B to 147C. Petiole: Length: About 2.3 cm. Diameter: About 2.2 mm. Color: Close to 147B.

Flowering description:

Appearance.—Decorative-type inflorescence form with elongated quilled-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 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 sub-

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stance for at least three weeks in an interior environment after one week of cool storage.

Quantity of inflorescences.—Freely flowering with about 17 inflorescences per flowering stem.

Inflorescence size.—Diameter: About 6.6 cm. Depth (height): About 2.2 cm. Diameter of disc: About 8 mm. Diameter of receptacle: About 8.5 mm.

Ray florets.—Shape: Elongated, quilled. Length: About 3.1 cm. Width: About 5 mm. Corolla tube length: About 2.6 cm. Corolla tube width, at base: About 1.5 mm. Apex: Rounded, mammillate or emarginate. Base: Fused. Texture: Satiny, smooth, glabrous. Aspect: Initially upright and incurved to mostly straight and flat with development; when mature, rays upright, about 45° from vertical. Number of ray florets per inflorescence: About 224 arranged in numerous rows. Color: When opening, upper and lower surfaces: Initially, light yellowish green, 154D; becoming light green, 145C to 145D; then becoming white, 155D. Mature, outside of tube: White, 155D, ground color, overlain with 77A; overall tonality, 75A to 75C. Mature, inside of tube: White, 155D, ground color, overlain with 77A; overall tonality, 75B to 75C.

Disc florets.—Shape: Tubular; slightly flared at apex. Length: About 7 mm. Width: Apex: About 1.5 mm. Base: About 1 mm. Number of disc florets per inflorescence: Massed at center of receptacle, about 51. Color: Immature: 144A to 154A. Mature: Apex: 9A. Mid-section and base: 155D.

Peduncle.—Aspect: Strong, angled about 45 to 50° from vertical. Length: First peduncle: About 8.3 cm. Fourth peduncle: About 11.7 cm. Seventh peduncle: About 14.2 cm. Diameter: About 3 mm. Texture: Very fine pubescence. Color: 146A.

Reproductive organs.—Androecium: Present on disc florets only. Anther color: 9A. Amount of pollen: Scarce to moderate. Pollen color: 15A. 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 'Spring', as illustrated and described.

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