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United States Patent [19]

[11] Patent Number: Plant 10,208

Pieters

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[54] CHRYSANTHEMUM PLANT NAMED 'PINOS'

P.P. 3,454	1/1974	Mack et al.	Plt./78
P.P. 5,661	2/1986	Meek et al.	Plt./78
P.P. 5,936	4/1987	Shoesmith	Plt./78
P.P. 6,404	11/1988	Mack et al.	Plt./78

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[21] Appl. No.: 755,951

[22] Filed: Nov. 25, 1996

[51] Int. Cl.⁶ A01H 5/00

[52] U.S. Cl. Plt./78

[58] Field of Search Plt./78

[57] ABSTRACT

A distinct cultivar of Chrysanthemum plant named 'Pinos', characterized by its upright, rounded and freely branching growth habit; moderate vigor; decorative-type inflorescences; bright yellow ray florets; numerous inflorescences per plant; and good garden performance.

[56] References Cited

U.S. PATENT DOCUMENTS

P.P. 802 7/1948 Prushek Plt./78

2 Drawing Sheets

1

2

The present invention relates to a new and distinct cultivar of garden Chrysanthemum plant, botanically known as *Dendranthema grandiflora* and referred to by the cultivar name Pinos.

The new cultivar is a product of a planned breeding program conducted by the inventor in Staden, Belgium. The objective of the breeding program was to create new garden Chrysanthemum cultivars that are freely branching and have numerous and long-lasting inflorescences.

The new cultivar originated from a cross made by the inventor of the cultivar Tripoli (U.S. Plant patent application Ser. No. 8/755,185 as the female, or seed, parent with the nonpatented cultivar Draga as the male, or pollen parent.

The new Chrysanthemum was discovered and selected by the inventor as a flowering plant within the progeny of the stated cross in a controlled environment in Staden, Belgium.

Asexual reproduction of the new cultivar by terminal cuttings taken at Staden, Belgium, as shown that the unique features of this new Chrysanthemum are stable and reproduced true to type in successive generations.

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Pinos'. These characteristics in combination distinguish 'Pinos' as a new and distinct cultivar:

1. Upright, rounded and freely branching growth habit, moderately vigorous.
2. Decorative-type inflorescences.
3. Bright yellow ray florets.
4. Numerous inflorescences per plant.
5. Good garden performance.

The cultivar Pinos 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.

In side-by-side comparisons in Staden, Belgium, under commercial practice, plants of the new Chrysanthemum differ from plants of the female parent, the cultivar Tripoli, in foliage color and plant size. In the same comparisons, plants of the new Chrysanthemum differ from the male parent, the cultivar Draga, in vigor and foliage and inflorescence colors.

Plants of the new Chrysanthemum can be compared to the cultivar Jessica (U.S. Plant Pat. No. 7,587). However, in side-by-side comparisons conducted in Oxnard, Calif., under commercial practice, plants of the new Chrysanthemum had smaller inflorescences and flowered later than plants of the cultivar Jessica.

The accompanying colored photographs illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type.

The first photograph comprises a side perspective view of a typical flowering 16.5-cm container of 'Pinos' with five cuttings in the container.

The second photograph comprises a close-up view of typical inflorescences of the new Chrysanthemum.

Foliage and floret colors in the photographs may appear different from the actual colors due to light reflectance.

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 Oxnard, Calif., under commercial practice in a glass-covered greenhouse with night temperatures ranging between 14 and 20C, day temperatures ranging between 20 and 30C, and average light levels of 5,000 to 6,000 footcandles.

After sticking unrooted cuttings of the new cultivar, plants received 4 weeks of long day/short nights followed by short day/long nights until flowering. Measurements and numerical values represent ranges or averages for six typical flowering plants.

Botanical classification:

Dendranthema grandiflora cultivar Pinos.

Commercial classification: Garden Chrysanthemum.

Parentage

Female, or seed parent.—*Dendranthema grandiflora* cultivar 'Tripoli' (U.S. Plant patent application Ser. No. 08/755,185.

Male, or pollen, parent.—*Dendranthema grandiflora* cultivar 'Draga' (not patented).

Propagation:

Type.—Terminal tip cuttings.

Time to rooting.—10 to 12 days with soil temperatures of 20C.

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

Plant description:

Appearance.—Perennial herbaceous garden plant.

Upright with rounded inflorescence display. Moderate growth rate and vigor, freely branching.

Plant height.—About 23 to 25 cm.

Lateral branch length.—About 17 to 18 cm.

Quantity of lateral branches after removal of apical meristem.—About 5 to 6.

Stem color.—138B.

Foliage description.—Number of leaves per plant: About 75 to 108. Number of leaves per lateral branch: About 15 to 18. Leaf arrangement: Alternate. Leaf size, fully expanded: Length: About 5 to 6 cm. Width: About 3 to 3.5 cm. Leaf apex: Mucronate. Leaf base: Attenuate to truncate. Leaf margin: Palmately lobed. Leaf texture: Fleshy, smooth and dull. Adaxial surface slightly pubescent. Veins prominent on abaxial surface. Petiole length: About 2 cm. Color: Young foliage adaxial surface: 137A. Young foliage abaxial surface: 137C. Fully expanded foliage adaxial surface: 137A. Fully expanded foliage abaxial surface: 137C. Venation adaxial surface: 137D. Venation abaxial surface: 137B. Petiole: 137B.

Inflorescence description:

Appearance.—Decorative-type inflorescence form. Inflorescences borne on terminals above foliage, arising from leaf axils. Disc and ray florets arranged acropetally on a flat capitulum.

Flowering response.—Under natural conditions, plants flower in the autumn. Inflorescence initiation and development can be induced under short day/long night conditions (at least 13.5 hours of darkness). Plants exposed to 3 to 4 weeks of long day/short night conditions after sticking followed by photoinductive short day/long night conditions, flower about 56 days later. Inflorescences maintain good substance for 3 weeks under bright natural daylight.

Quantity of inflorescences.—About 20 to 25 inflorescences per flowering stem.

Inflorescence size.—Diameter: About 3 to 4 cm. Depth (height): About 1 cm. Diameter of disc: About 4 mm.

Opening inflorescences.—Bud shape: Spherical. Bud size: Length: About 1 cm. Width: About 1 cm. Bud color: 9B.

Ray florets.—Shape: Spatulate. Size: Length: About 1 to 1.75 cm. Width: About 5 mm. Apex: Obtuse/retuse. Base: Acute. Margin: Entire. Aspect: Concave. Texture: Shiny, velvety, somewhat soft, smooth and glabrous. Number of ray florets per inflorescence: About 200. Color: When opening, adaxial surface: 9A. When opening, abaxial surface: 9B. Mature, adaxial surface: 9B. Mature, abaxial surface: 9C. Fading to, adaxial surface: 9C. Fading to, abaxial surface: 10B. After senescence: 10C.

Disc florets.—Shape: Tubular. Size: Length: About 4 mm. Width: About 1 mm. Number of disc florets per inflorescence: About 15 to 20. Color: Immature: 9A. Mature: 9A.

Peduncle.—Aspect: Strong, erect. Length: First peduncle: About 2.5 cm. Fourth peduncle: About 4.5 cm. Texture: Pubescent. Color: 138B/138C.

Sepals.—Shape: Linear. Apex: Acute. Margin: Entire. Texture: Glossy and pubescent. Quantity: About 25. Color: Adaxial surface: 143B. Abaxial surface: 137C.

Reproductive organs.—Androecium: Not observed. Gynoecium: Present on both ray and disc florets. Stigma color: 9A. Style length: About 3 to 4 mm. Style color: 10B.

Disease resistance: No known Chrysanthemum diseases observed to date on plants grown under commercial greenhouse conditions.

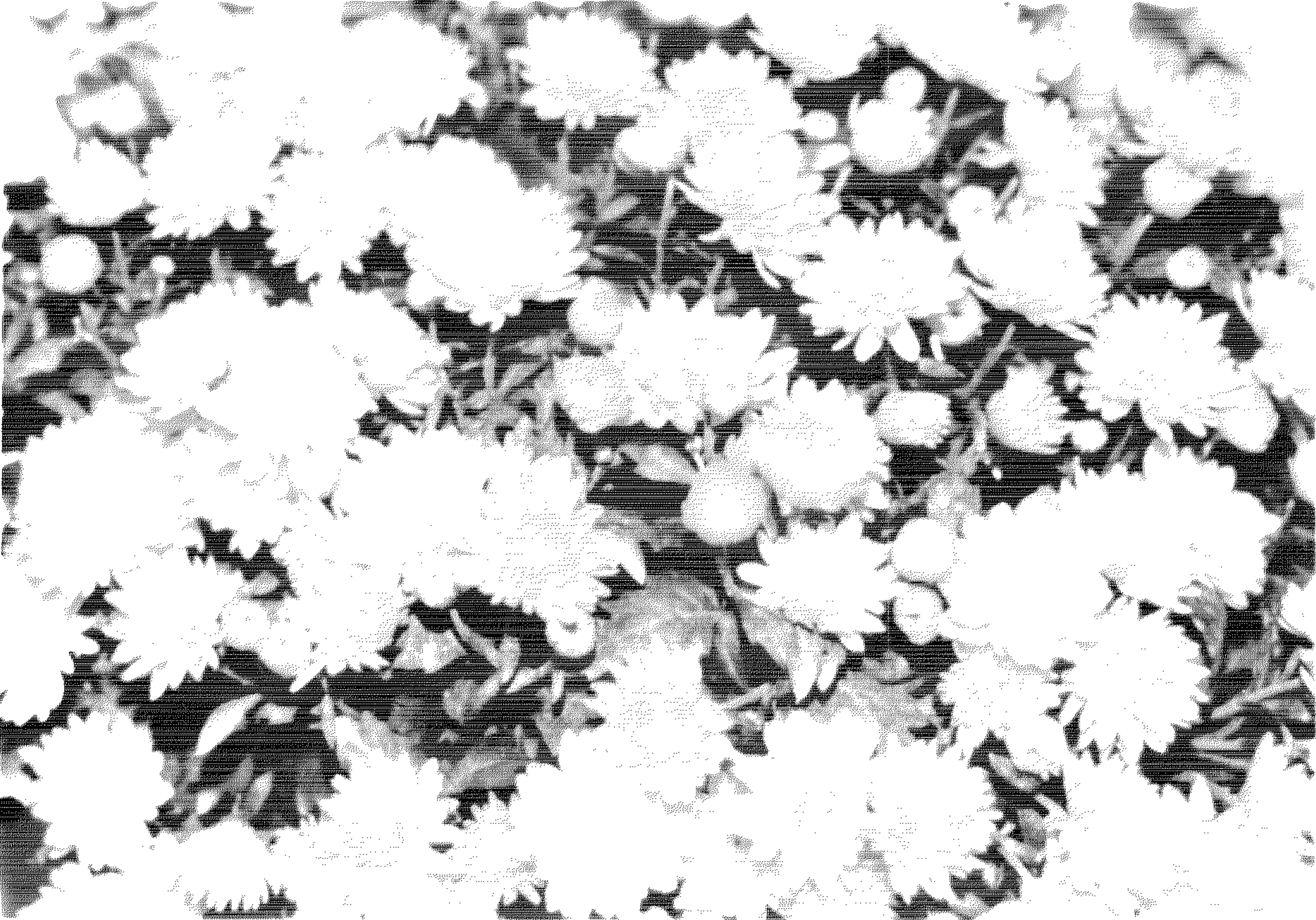
Seed production: Seed production has not been observed.

It is claimed:

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

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : Plant 10,208
DATED : January 20, 1998
INVENTOR(S) : Dirk Pieters

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1, line 11, change "Ser. No. 8/755,185" to -- Ser. No. 08/755,185 --.

Signed and Sealed this
Tenth Day of August, 1999

Attest:



Q. TODD DICKINSON

Attesting Officer

Acting Commissioner of Patents and Trademarks