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# United States Patent [19] Wain

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[54] **CHRYSANTHEMUM PLANT NAMED 'JENNY WREN'**  
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[73] Assignee: Cleangro Ltd., Chichester, United Kingdom  
[21] Appl. No.: 733,727  
[22] Filed: Oct. 18, 1996  
[51] Int. Cl.<sup>6</sup> ..... A01H 5/00  
[52] U.S. Cl. .... Plt./76

[58] Field of Search ..... Plt./76, 82

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## [57] ABSTRACT

A distinct cultivar of Chrysanthemum plant named 'Jenny Wren', characterized by its vigorous and upright growth habit; numerous small leaves; decorative-type inflorescences; magenta-colored ray florets; numerous inflorescences per plant; and good garden performance.

2 Drawing Sheets

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

The new cultivar is a product of a planned breeding program conducted by the inventor in Chichester, West Sussex, United Kingdom. The objective of the breeding program was to create new Chrysanthemum cultivars having desirable inflorescence colors and good garden performance.

The new cultivar originated from a cross made by the inventor of the cultivar Bravo (U.S. Plant Pat. No. 6,888) as the female, or seed, parent with the proprietary selection 7/GM/94 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 Chichester, West Sussex, United Kingdom.

Asexual reproduction of the new cultivar by terminal cuttings taken at Chichester, West Sussex, United Kingdom, has 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 'Jenny Wren'. These characteristics in combination distinguish 'Jenny Wren' as a new and distinct cultivar:

1. Vigorous and upright growth habit.
2. Numerous small leaves giving a bushy, dense appearance.
3. Decorative-type inflorescences.
4. Magenta-colored ray florets.
5. Numerous inflorescences per plant.
6. Good garden performance.

The cultivar Jenny Wren 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 Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum are more compact and flower later than plants of the female parent, the Chrysanthemum cultivar Bravo. In the same comparisons, plants of the new Chrysanthemum are more compact, less vigorous and have more ray florets than the male parent, the proprietary selection 7/GM/94.

Plants of the new Chrysanthemum can be compared to the cultivar Sundoro (U.S. Plant Pat. No. 7,225). However, in side-by-side comparisons conducted in Oxnard, Calif.,

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under commercial practice, plants of the new Chrysanthemum differed from plants of the cultivar Sundoro in the following characteristics:

1. Plants of the new Chrysanthemum are more vigorous and taller than plants of the cultivar Sundoro.
2. Plants of the new Chrysanthemum have more than twice as many leaves as plants of the cultivar Sundoro. Plants of the new Chrysanthemum appear denser than plants of the cultivar Sundoro.
3. Plants of the new Chrysanthemum have leaves that are less than half as large as leaves of plants of the cultivar Sundoro.
4. Plants of the new Chrysanthemum have more inflorescences and more ray florets than plants of the cultivar Sundoro.
5. Plants of the new Chrysanthemum have smaller inflorescences and smaller ray florets than plants of the cultivar Sundoro.
6. The abaxial surface of the ray florets of the new Chrysanthemum is light pink whereas the abaxial surface of the ray florets of the cultivar Sundoro is light orange.
7. Plants of the new Chrysanthemum have longer peduncles than plants of the cultivar Sundoro.

A detailed comparison of plants of the new Chrysanthemum and the cultivar Sundoro appears in Chart A at the end of the specification.

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 top perspective view of a typical flowering 16.5-cm container of 'Jenny Wren' with one cutting in the container.

The second photograph comprises a close-up view of five leaves at different stages of development and a fully opened inflorescence. 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 average night temperatures of 18C, average day temperatures of 30C, and light levels of 2,000 (cloudy conditions) to 9,000 (sunny conditions) 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 Jenny Wren.

Commercial classification: Garden chrysanthemum.

Parentage:

*Female, or seed, parent.*—*Dendranthema grandiflora* cultivar Bravo (U.S. Plant Pat. No. 6,888).

*Male, or pollen, parent.*—*Dendranthema grandiflora* proprietary selection 7/GM/94.

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. Vigorous and rapid growth rate. Stems upright, uniform habit and freely branching.

*Plant height.*—About 26 cm.

*Lateral branch length.*—About 23 cm.

*Quantity of lateral branches after removal of apical meristem.*—About 3.

*Stem color.*—147D.

*Foliage description.*—Number of leaves per plant: About 100. Number of leaves per lateral branch: About 34. Leaf arrangement: Alternate. Leaf size, fully expanded: Length: About 1.9 cm. Width: About 1.6 cm. Leaf apex: Rounded, slightly apiculate. Leaf base: Attenuate. Leaf margin: Palmately lobed. Leaf texture: Abaxial and adaxial surfaces slightly pubescent, smooth and dull. Veins prominent on abaxial surface. Petiole length: About 2.5 cm. Color: Young foliage abaxial surface: 137A. Young foliage abaxial surface: 147B. Fully expanded foliage adaxial surface: 147A. Fully expanded foliage abaxial surface: 147B. Venation abaxial surface: 147C. Venation adaxial surface: 147C. Petiole: 147C.

Flowering description:

*Appearance.*—Decorative 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. 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 4 weeks of long day/short night conditions after sticking followed by photoinductive short day/long night conditions, flower about 49 days later.

*Quantity of inflorescences.*—About 8 inflorescences per flowering stem.

*Inflorescence size.*—Diameter: About 4.3 cm. Depth (height): About 1.6 cm. Diameter of disc: About 3 mm.

*Opening inflorescences.*—Bud shape: Spherical. Bud size: Length: About 8 mm. Width: About 9 mm. Bud color: 58A.

*Ray florets.*—Shape: Strap-like, narrow. Size: Length: About 2 cm. Width: About 5 mm. Apex: Tri-dentate. Base: Acute. Margin: Entire. Texture: Matte, smooth and glabrous. Aspect: Flat. Number of ray florets per

inflorescence: About 196. Color: When opening, adaxial surface: 58A. When opening, abaxial surface: 65D. Mature, adaxial surface: 58A. Mature, adaxial surface: 65C. Fading to: 67C.

*Disc florets.*—Shape: Tubular. Size: Length: About 4 mm. Width: About 1 mm. Number of disc florets per inflorescence: About 6. Color: Immature: 2D. Mature: 2D.

*Peduncle.*—Aspect: Strong and angled about 35 to 40° to the stem. Length: First peduncle: About 5.2 cm. Fourth peduncle: About 7.5 cm. Texture: Pubescent. Color: 138B.

*Reproductive organs.*—Androecium: Present on disc florets only. Anther color: 3A. Pollen: Moderate, 3A in color. Gynoecium: Present on both ray and disc florets. Style color: 154C.

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

Seed production: Seed production has not been observed.

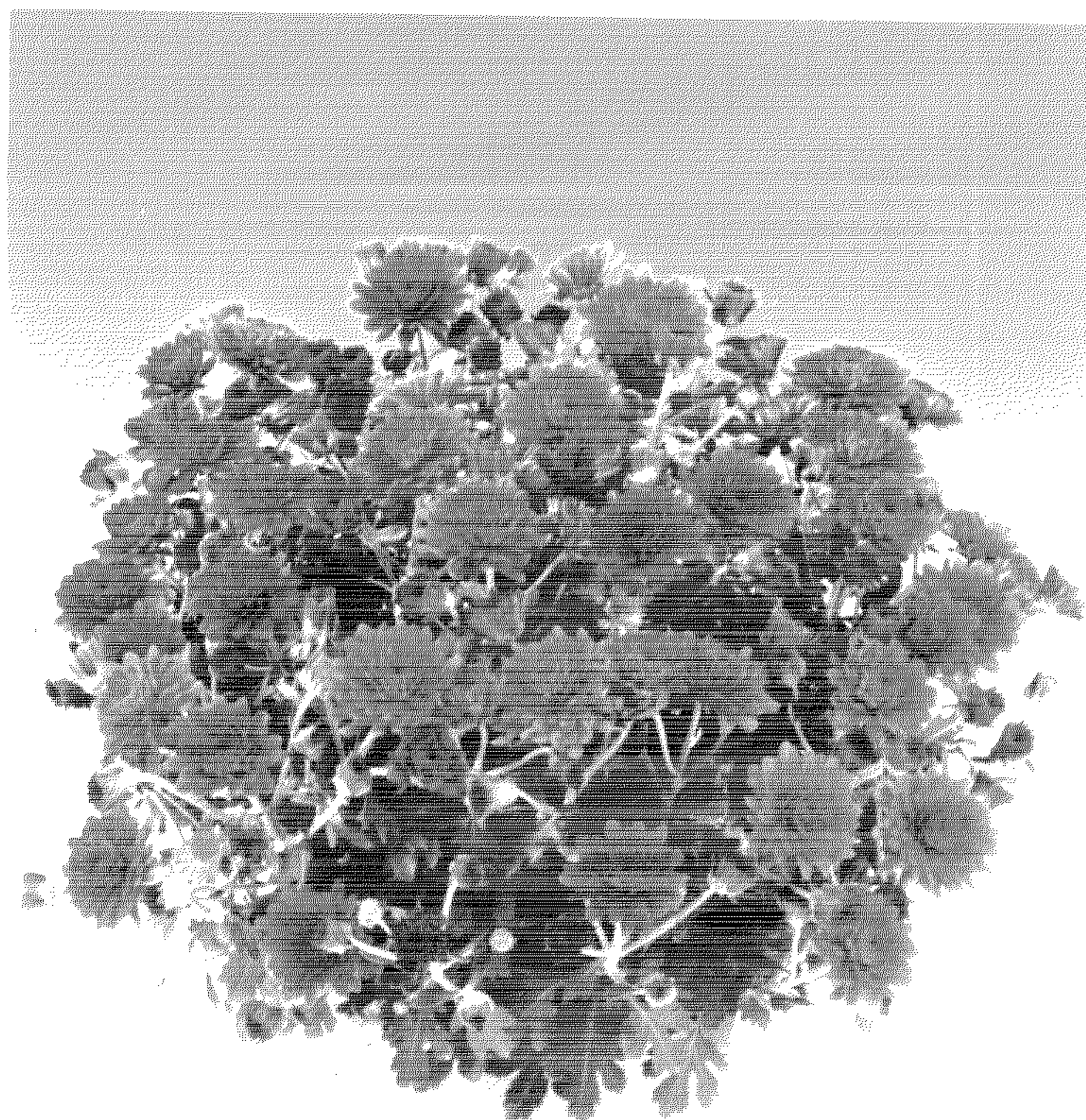
CHART A

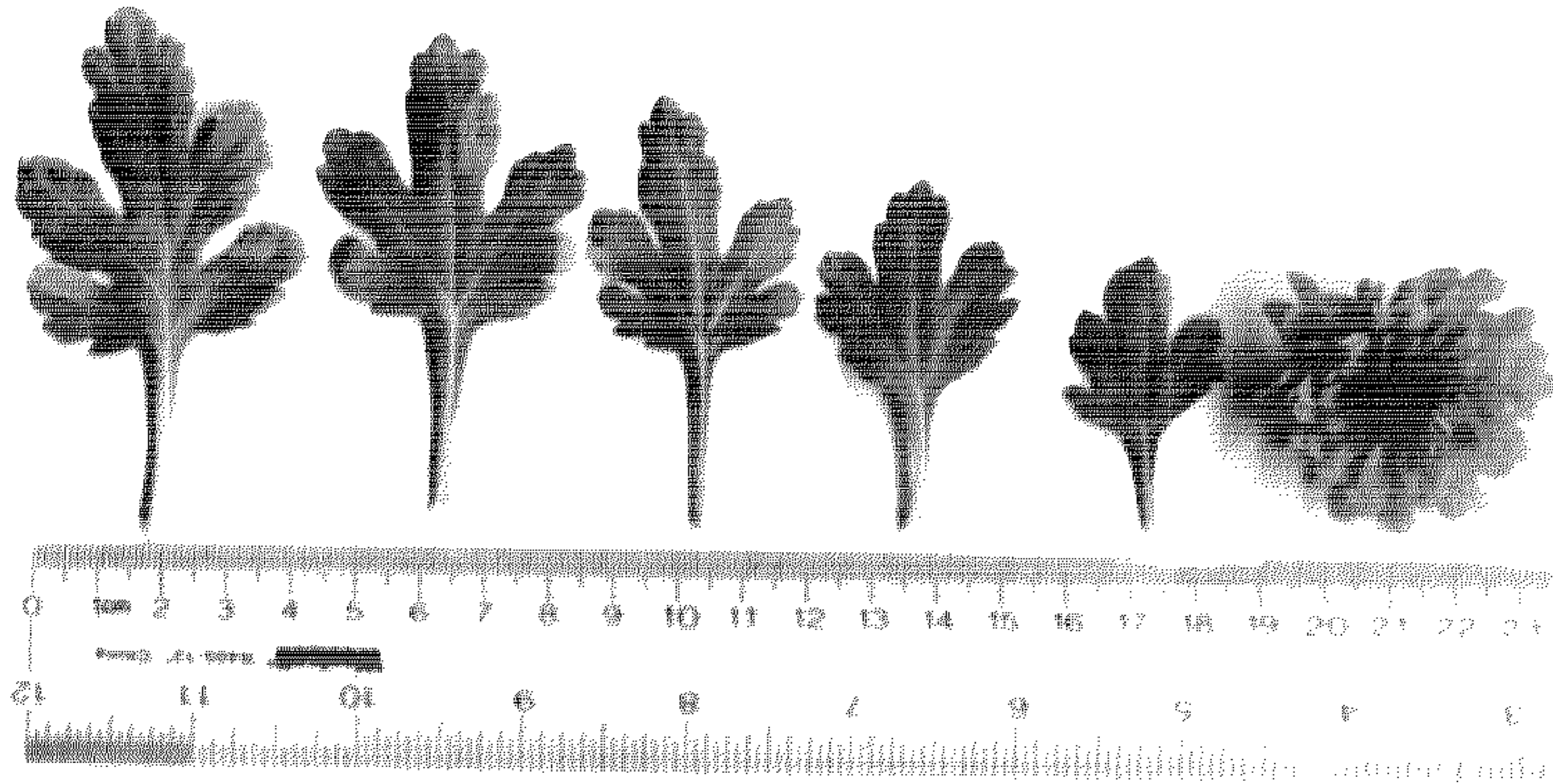
CHARACTERISTIC	'JENNY WREN'	'SUNDORO'
PLANT HEIGHT	About 26 cm	About 23 cm
LATERAL STEM LENGTH	About 23 cm	About 20 cm
GROWTH RATE	Rapid	Moderate
VIGOR	High	Moderate
QUANTITY OF LEAVES PER PLANT	About 100	About 45
QUANTITY OF LEAVES PER LATERAL BRANCH	About 34	About 15
LEAF LENGTH	About 1.9 cm	About 4.4 cm
LEAF WIDTH	About 1.6 cm	About 3.7 cm
YOUNG FOLIAGE, ADAXIAL	137A	147A
QUANTITY OF INFLORESCENCES PER LATERAL STEM	8	6
INFLORESCENCE DIAMETER	About 4.3 cm	About 5.6 cm
INFLORESCENCE DEPTH	About 1.6 cm	About 2 cm
BUD SHAPE	Spherical	Flattened
BUD COLOR	58A	70D
RAY FLORET SHAPE	Strap-like	Spatulate
RAY FLORET APEX	Tri-dentate	Emarginate with small notch
RAY FLORET LENGTH	About 2 cm	About 2.6 cm
RAY FLORET WIDTH	About 5 mm	About 8 mm
RAY FLORET COLOR, WHEN OPENING, ADAXIAL	58A	60C
RAY FLORET COLOR, WHEN OPENING, ABAXIAL	65D	36B
RAY FLORET COLOR, MATURE, ADAXIAL	58A	70B
RAY FLORET COLOR, MATURE, ABAXIAL	65C	27B
RAY FLORET COLOR FADING TO	67C	70C
NUMBER OF RAY FLORETS PER INFLORESCENCE	About 196	About 150
NUMBER OF DISC FLORETS PER INFLORESCENCE	About 6	About 20
DISC FLORET COLOR, IMMATURE	2D	154C
DISC FLORET COLOR, MATURE	2D	154C
DIAMETER OF DISC	About 3 mm	About 6 mm
PEDUNCLE LENGTH, FIRST	About 5.2 cm	About 3.2 cm
PEDUNCLE LENGTH, FOURTH	About 7.5 cm	About 5.4 cm
PEDUNCLE ANGLE TO STEM	About 35 to 40°	About 30°

It is claimed:

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

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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

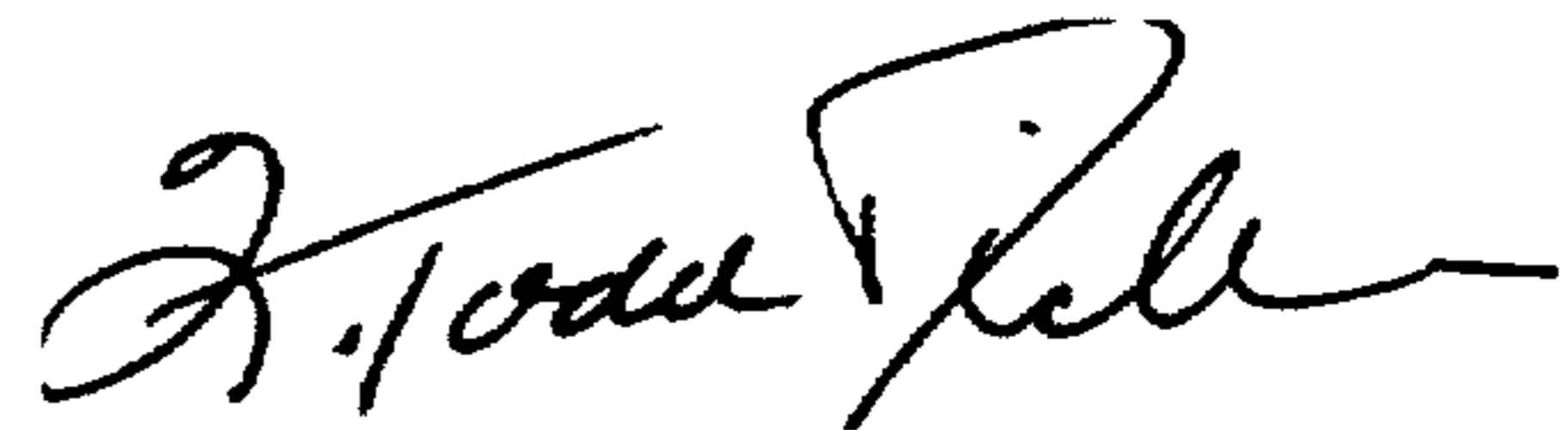
PATENT NO. : Plant 10,213  
DATED : January 27, 1998  
INVENTOR(S) : Peter Wain

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

Column 3, line 4, change "cultiver" to -- cultivar --.  
Column 3, line 35, change "Young foliage abaxial surface: 137A." to  
--Young foliage adaxial surface: 137A. --.  
Column 4, line 4, change "adaxial surface: 65C." to  
-- abaxial surface: 65C. --.

Signed and Sealed this  
Tenth Day of August, 1999

*Attest:*



Q. TODD DICKINSON

*Attesting Officer*

*Acting Commissioner of Patents and Trademarks*