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Wain

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(54) ***CHRYSANTHEMUM* PLANT NAMED 'DOCHRYBREWHI'**

(50) Latin Name: ***Chrysanthemum* X *morifolium***
Varietal Denomination: **Dochrybrewhi**

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(52) **U.S. Cl.**
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USPC Plt./286, 294
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

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(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named 'Dochrybrewhi', characterized by its upright to outwardly spreading and uniformly mounded plant habit; medium in height and moderately vigorous growth habit; freely branching habit; dense and full plant form; uniform and freely flowering habit; large single-type inflorescences with white-colored ray florets; and when grown under controlled day-length/nyctoperiods, flowering response time is about 50 days.

1 Drawing Sheet

Botanical designation: *Chrysanthemum* X *morifolium*.
Cultivar denomination: 'DOCHRYBREWHI'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct *Chrysanthemum* plant, botanically known as *Chrysanthemum* X *morifolium*, commercially grown as a potted *Chrysanthemum* plant and hereinafter referred to by the name 'Dochrybrewhi'.

The new *Chrysanthemum* plant is a product of a planned breeding program conducted by the Inventor in Fareham, Hampshire, United Kingdom. The objective of the breeding program is to create new potted *Chrysanthemum* plants with numerous attractive inflorescences.

The new *Chrysanthemum* plant originated from a cross-pollination made in January, 2013 by the Inventor in Fareham, Hampshire, United Kingdom of a proprietary selection of *Chrysanthemum* X *morifolium* identified as code number 86561, not patented, as the female, or seed, parent with a proprietary selection of *Chrysanthemum* X *morifolium* identified as code number 85427, not patented, as the male, or pollen, parent. The new *Chrysanthemum* plant was discovered and selected by the Inventor as a single flowering plant from within the progeny of the stated cross-pollination in a controlled greenhouse environment in Fareham, Hampshire, United Kingdom in September, 2013.

Asexual reproduction of the new *Chrysanthemum* plant by terminal vegetative cuttings was first conducted in Fareham, Hampshire, United Kingdom in December, 2013. Asexual reproduction by terminal vegetative cuttings has shown that the unique features of this new *Chrysanthemum* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Chrysanthemum* have not been observed under all possible combinations of environmental conditions and cultural practices. The phenotype may vary somewhat with variations in environmental conditions 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 'Dochrybrewhi'. These characteristics in combination distinguish 'Dochrybrewhi' as a new and distinct *Chrysanthemum* plant:

1. Upright to outwardly spreading and uniformly mounded plant habit.
2. Medium in height and moderately vigorous growth habit.
3. Freely branching habit; dense and full plant form.
4. Uniform and freely flowering habit.
5. Large single-type inflorescences with white-colored ray florets.
6. Grown under controlled daylength/nyctoperiods, flowering response time is about 50 days.

Plants of the new *Chrysanthemum* can be compared to plants of the female parent selection. Plants of the new *Chrysanthemum* differ primarily from plants of the female

parent selection in time to flower as plants of the new *Chrysanthemum* flower about three days later plants of the female parent selection.

Plants of the new *Chrysanthemum* can be compared to plants of the male parent selection. Plants of the new *Chrysanthemum* differ primarily from plants of the male parent selection in ray floret color as plants of the male parent selection have yellow-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to plants of *Chrysanthemum* X *morifolium* 'Breeze Frost', not patented. In side-by-side comparisons, plants of the new *Chrysanthemum* differ primarily from plants of 'Breeze Frost' in time to flower as plants of the new *Chrysanthemum* flower about four days later than plants of 'Breeze Frost'. In addition, plants of the new *Chrysanthemum* have larger inflorescences than plants of 'Breeze Frost'.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph illustrates the overall appearance of the new *Chrysanthemum* plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photograph may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Chrysanthemum* plant.

The photograph is a top perspective view of a typical flowering plant of 'Dochrybrewhi' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and measurements describe plants grown during the winter in 14-cm containers in a glass-covered greenhouse in Fareham, Hampshire, United Kingdom and under cultural practices typical of commercial garden *Chrysanthemum* production. During the production of the plants, day and night temperatures ranged from 17° C. to 21° C. and light levels averaged 6,000 lux. Plants were propagated under long day/short night conditions for two weeks and then grown under short day/long night conditions to induce inflorescence initiation and development. Plants were nine weeks old when the photograph and detailed description were taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, Fifth Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Chrysanthemum* X *morifolium* 'Dochrybrewhi'.

PARENTAGE:

Female, or seed, parent.—Proprietary selection of *Chrysanthemum* X *morifolium* identified as code number 86561, not patented.

Male, or pollen, parent.—Proprietary selection of *Chrysanthemum* X *morifolium* identified as code number 85427, not patented.

Propagation:

Type.—Terminal vegetative cuttings.

Time to initiate roots, summer.—About ten days at temperatures about 21° C.

Time to initiate roots, winter.—About twelve days at temperatures about 21° C.

Time to produce a rooted young plant, summer.—About three weeks at temperatures about 21° C.

Time to produce a rooted young plant, winter.—About four weeks at temperatures about 21° C.

Root description.—Medium in thickness, fleshy; typically light brown in color, actual color of the roots is dependent on substrate composition, water quality, fertilizer type and formulation, substrate temperature and physiological age of roots.

Rooting habit.—Freely branching; medium density.

Plant description:

Plant and growth habit.—Herbaceous single-type potted *Chrysanthemum*; stems upright to outwardly spreading giving a uniformly mounded appearance to the plant; numerous lateral branches and relatively short internodes, dense and full plant form; moderately vigorous growth habit; moderate growth rate; typically grown as a spray-type.

Plant height.—About 12 cm.

Plant width.—About 25 cm.

Branching habit.—Freely branching habit; about three lateral branches develop after removal of terminal apex (pinching).

Lateral branches.—Length: About 10 cm. Diameter: About 3 mm. Internode length: About 1.5 cm. Strength: Strong. Aspect: About 35° from vertical. Texture: Fine pubescence. Color: Close to 137C.

Leaf description:

Arrangement.—Alternate, simple.

Length.—About 6 cm.

Width.—About 5 cm.

Shape.—Palmately-lobed; roughly ovate with three to five lobes.

Apex.—Cuspidate.

Base.—Attenuate.

Margin.—Slightly dentate and palmately lobed; sinuses between lateral lobes mostly divergent.

Texture, upper and lower surfaces.—Fine pubescence; slightly rough; veins prominent on lower surface.

Color.—Developing leaves, upper surface: Close to 139A. Developing leaves, lower surface: Close to N138B. Fully expanded leaves, upper surface: Close to 137A; venation, close to 148B. Fully expanded leaves, lower surface: Close to 147B; venation, close to 147C.

Petioles.—Length: About 1.5 cm. Diameter: About 4 mm. Texture, upper and lower surfaces: Fine pubescence; slightly rough. Color, upper surface: Close to 148B. Color, lower surface: Close to 147C.

Inflorescence description:

Form and flowering habit.—Single-type inflorescence form with ligulate-shaped ray florets; inflorescences borne on terminals above and beyond the foliar plane; disc and ray florets arranged acropetally on a capitulum; freely flowering habit with about twelve fully opened inflorescences at one time.

Fragrance.—Fragrant; pungent, herbaceous.

Flowering response.—Grown under controlled short day/long night conditions, response time is about 50 days.

Inflorescence longevity.—Inflorescences maintain good color and substance for about two to three weeks on the plant; inflorescences persistent.

Inflorescence buds.—Height: About 5 mm. Diameter: About 8 mm. Shape: Oblate. Color: Close to 137D.

Inflorescence diameter.—About 7 cm.

Inflorescence height.—About 1.5 cm.

Disc diameter.—About 1.5 cm.

Receptacles.—Height: About 4 mm. Diameter: About 5 mm. Shape: Conical. Color: Close to 145B.

Ray florets.—Number of ray florets per inflorescence: About 30 ray florets arranged in about two whorls. Orientation: Initially upright, then about 70° from vertical. Length: About 3.3 cm. Width: About 1.3 cm. Shape: Ligulate; double-keeled and slightly concave. Apex: Mostly rounded to emarginate. Base: Fused into a short tube. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper and lower surfaces: Close to 149D. Fully opened, upper and lower surfaces: Close to NN155A; with development, color becoming closer to NN155B.

Disc florets.—Number of disc florets per inflorescence: About 250 massed at the center of the receptacle. Length: About 4 mm. Diameter: About 1 mm. Shape: Tubular, elongated; apices, acute. Texture, inner and outer surfaces: Smooth, glabrous. Color, when opening: Apex and mid-section: Close to 1C. Base: Close to 157B. Color, fully opened: Apex: Close to 9B. Mid-section: Close to 1B. Base: Close to 157B.

Phyllaries.—Number of phyllaries per inflorescence: About 22 arranged in about three whorls. Length: About 5 mm. Width: About 3 mm. Shape: Lanceolate. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper surface: Smooth, glabrous; waxy. Texture, lower surface: Fine pubescence; waxy. Color, upper and lower surfaces: Close to 143A.

Peduncles.—Length, terminal peduncle: About 2 cm. Diameter, terminal peduncle: About 2 mm. Angle: Erect to about 20° from vertical. Strength: Moderately strong, flexible. Texture: Densely pubescent. Color: Close to 146B.

Reproductive organs.—Androecium: None observed. Gynoecium: Present only on ray florets. Pistil length: About 5 mm. Stigma shape: Bi-parted. Stigma color: Close to 5B. Style length: About 4 mm. Style color: Close to 145C. Ovary color: Close to 157C.

Seeds and fruits.—Seed and fruit production has not been observed on plants of the new *Chrysanthemum* to date.

Disease & pest resistance: Resistance to pathogens and pests common to *Chrysanthemum* plants has not been observed on plants of the new *Chrysanthemum* to date.

Temperature tolerance: Plants of the new *Chrysanthemum* have been observed to tolerate temperatures from about 0° C. to about 35° C.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named 'Dochrybrewhi' as illustrated and described.

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