



US00PP30942P3

(12) **United States Plant Patent**  
**Wain**

(10) **Patent No.:** **US PP30,942 P3**

(45) **Date of Patent:** **Oct. 15, 2019**

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

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

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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.

(21) Appl. No.: **15/732,515**

(22) Filed: **Nov. 21, 2017**

(65) **Prior Publication Data**  
US 2018/0146588 P1 May 24, 2018

**Related U.S. Application Data**

(60) Provisional application No. 62/497,574, filed on Nov.  
22, 2016.

(51) **Int. Cl.**  
*A01H 5/02* (2018.01)  
*A01H 6/14* (2018.01)

(52) **U.S. Cl.**  
USPC ..... **Plt./286**  
CPC ..... *A01H 6/1424* (2018.05); *A01H 5/02*  
(2013.01)

(58) **Field of Classification Search**  
USPC ..... Plt./286, 297, 298, 287, 293, 292  
CPC ..... *A01H 5/0255*; *A01H 5/02*; *A01H 5/00*;  
*A01H 6/1424*; *A01H 6/14*  
See application file for complete search history.

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(57) **ABSTRACT**  
A new and distinct cultivar of *Chrysanthemum* plant named  
'Fichryraincar', characterized by its upright to outwardly  
spreading and uniformly mounded plant habit; moderately  
vigorous growth habit; freely branching habit; dense and full  
plant form; uniform and freely flowering habit; medium to  
large semi-decorative type inflorescences with red purple  
and white bi-colored ray florets; response time about 51 days  
under controlled photoperiodic treatments; and good post-  
production longevity.

**1 Drawing Sheet**

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

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct *Chry-*  
*santhemum* plant, botanically known as *Chrysanthemum X*  
*morifolium*, commercially grown as a garden *Chrysanthe-*  
*mum* plant, referred to as code number 65713 in U.S.  
Provisional Patent Application Ser. No. 62/497,574 and  
hereinafter referred to by the name 'Fichryraincar'.

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 Fare-  
ham, Hampshire, United Kingdom of a proprietary selection  
of *Chrysanthemum X morifolium* identified as code number  
807460, not patented, as the female, or seed, parent with a  
proprietary selection of *Chrysanthemum X morifolium* iden-  
tified as code number 807109, not patented, as the male, or  
pollen, parent. The new *Chrysanthemum* plant was discov-  
ered 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 Fare-  
ham, Hampshire, United Kingdom in December, 2013.  
Asexual reproduction by terminal vegetative cuttings has

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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 tem-  
perature, 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  
'Fichryraincar'. These characteristics in combination distin-  
guish 'Fichryraincar' as a new and distinct *Chrysanthemum*  
plant:

1. Upright to outwardly spreading and uniformly  
mounded plant habit.
2. Moderately vigorous growth habit.
3. Freely branching habit; dense and full plant form.
4. Uniform and freely flowering habit.
5. Medium to large semi-decorative type inflorescences  
with red purple and white bi-colored ray florets.
6. Response time about 51 days under controlled photo-  
periodic treatments.
7. Good postproduction longevity.

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 eight days later than 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 the following characteristics:

1. Plants of the new *Chrysanthemum* flower about three days earlier than plants of the male parent selection.
2. Plants of the new *Chrysanthemum* and the male parent selection differ in ray floret color as plants of the male parent selection have inflorescences with red and yellow bi-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to plants of *Chrysanthemum* X *morifolium* 'Fichrybrepin', disclosed in U.S. Plant patent application Ser. No. 15/732, 511. In side-by-side comparisons, plants of the new *Chrysanthemum* differ primarily from plants of 'Fichrybrepin' in ray floret color as plants of 'Fichrybrepin' have inflorescences with solid light purple-colored ray florets.

#### 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 side perspective view of a typical flowering plant of 'Fichryraincar' grown in a 14-cm container.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and measurements describe plants grown during the summer 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 grown under long day/short night conditions for about 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* 'Fichryraincar'.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Chrysanthemum* X *morifolium* identified as code number 807460, not patented.

*Male, or pollen, parent.*—Proprietary selection of *Chrysanthemum* X *morifolium* identified as code number 807109, 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.*—Fine, fibrous; 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 semi-decorative 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.

*Plant height.*—About 14 cm.

*Plant width.*—About 27 cm.

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

*Lateral branches.*—Length: About 7 cm. Diameter: About 4 mm. Internode length: About 5 mm. Strength: Strong. Aspect: About 70° from vertical and then bending upwardly. Texture: Fine pubescence. Color: Close to 146B.

Leaf description:

*Arrangement.*—Alternate, simple.

*Length.*—About 4.5 cm.

*Width.*—About 2.6 cm.

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

*Apex.*—Broadly acuminate.

*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 N137B. Developing leaves, lower surface: Close to 147A. Fully expanded leaves, upper surface: Close to N137A; venation, close to 146A. Fully expanded leaves, lower surface: Close to 147A; venation, close to 146B.

*Petioles.*—Length: About 1.2 cm. Diameter: About 3 mm. Texture, upper and lower surfaces: Fine pubescence; slightly rough. Color, upper surface: Close to 146A. Color, lower surface: Close to 146B.

Inflorescence description:

*Form and flowering habit.*—Semi-decorative 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 24 inflorescences developing per plant during the flowering season.

*Fragrance.*—Mildly fragrant; pungent, herbaceous.

*Flowering response.*—Plants flower uniformly about 51 days after starting short day/long night photoperiodic treatments.

*Inflorescence longevity.*—Good postproduction 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 6 mm. Shape: Oblate. Color: Close to 138A.

*Inflorescence diameter*.—Medium to large, about 5.5 cm.

*Inflorescence height*.—About 2 cm.

*Disc diameter*.—About 1.2 cm.

*Receptacles*.—Height: About 2 mm. Diameter: About 3 mm. Shape: Conical. Color: Close to N144C.

*Ray florets*.—Number of ray florets per inflorescence: About 24 arranged in about two whorls. Orientation: Initially upright, then about 45° from vertical. Length: About 2.5 cm. Width: About 1 cm. Shape: Ligulate. Apex: Slightly emarginate. Base: Fused into a short tube. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; double-keeled.

*Color*.—When opening and fully opened, upper surface: Center and distally, close to 61A and towards the base, 155A; with development, colors becoming closer to 71A and 155A. When opening and fully opened, lower surface: Close to 155B; with development, closer to NN155B.

*Disc florets*.—Number of disc florets per inflorescence: About 227 massed at the center of the receptacle. Length: About 5 mm. Diameter: About 1 mm. Shape: Tubular, elongated; apices, acute. Texture, inner and outer surfaces: Smooth, glabrous. Color, when opening: Apex: Close to 9B. Mid-section: Close to 145A. Base: Close to 157D. Color, fully opened: Apex: Close to 9C. Mid-section: Close to 145A. Base: Close to 157D.

*Phyllaries*.—Number of phyllaries per inflorescence:

About 23 arranged in about two whorls. Length:

About 6 mm. Width: About 2 mm. Shape: Lanceolate. Apex: Obtuse. 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 3 mm. Angle:

Erect to about 10° from vertical. Strength: Moderately strong; flexible. Texture: Densely pubescent.

Color: Close to 139C.

*Reproductive organs*.—Androecium: None observed.

Gynoecium: Present only on ray florets. Pistil length:

About 6 mm. Stigma shape: Bi-parted. Stigma color:

Close to 6A. Style length: About 0.2 mm. Style

color: Close to 145B. Ovary color: Close to 1D.

*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.

Garden performance: Plants of the new *Chrysanthemum*

have demonstrated good garden performance and to tol-

erate temperatures from about 0° C. to about 35° C.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named

'Fichryraincar' as illustrated and described.

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