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**Post**

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(54) **CHRYSANTHEMUM PLANTED NAMED**  
**‘DLFJAM3’**

(50) Latin Name: *Chrysanthemum X morifolium*  
Varietal Denomination: **DLFJAM3**

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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named ‘DLFJAM3’, characterized by its upright plant habit; vigorous growth habit; dark green-colored leaves; uniform and freely flowering habit; strong upright flowering stems with numerous inflorescences; small decorative-type inflorescences with red purple and light purple-colored ray florets; and relative tolerance to low and high production temperatures.

**2 Drawing Sheets**

**1**

Botanical designation: *Chrysanthemum X morifolium*.  
Cultivar denomination: ‘DLFJAM3’.

CROSS-REFERENCED TO CLOSELY RELATED APPLICATIONS

Title: Varieties of *Chrysanthemum* Plants  
Applicant: Arie Gerard Post  
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BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Chrysanthemum* plant, botanically known as *Chrysanthemum X morifolium*, commercially grown as a cut flower and hereinafter referred to by the name ‘DLFJAM3’.

The new *Chrysanthemum* plant is a product of a planned breeding program conducted by the Inventor in Maasdijk, The Netherlands. The objective of the breeding program is to create new freely-flowering cut *Chrysanthemum* plants with attractive inflorescences, strong flowering stems and excellent postproduction longevity.

The new *Chrysanthemum* plant originated from a cross-pollination on Feb. 3, 2015 of a proprietary selection of *Chrysanthemum x morifolium* identified as code number DB 11953 as the female, or seed, parent with a proprietary selection of *Chrysanthemum x morifolium* identified as code number DB 46712 as the male, or pollen, parent. The new *Chrysanthemum* plant was discovered and selected as a single flowering plant from within the progeny of the stated cross-pollination in a controlled greenhouse environment in Maasdijk, The Netherlands on Oct. 27, 2015.

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Asexual reproduction of the new *Chrysanthemum* plant by vegetative terminal cuttings since Oct. 27, 2015 has shown that the unique features of this new *Chrysanthemum* plant are stable and reproduced true to type in successive generations of asexual reproduction. The instant plant was first asexually reproduced in Maasdijk, The Netherlands.

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 ‘DLFJAM3’. These characteristics in combination distinguish ‘DLFJAM3’ as a new and distinct *Chrysanthemum* plant:

1. Upright plant habit; vigorous growth habit.
2. Dark green-colored leaves.
3. Uniform and freely flowering habit.
4. Strong upright flowering stems with numerous inflorescences.
5. Small decorative-type inflorescences with red purple and light purple-colored ray florets.
6. Relatively tolerant to low and high production temperatures.

Plants of the new *Chrysanthemum* differ from plants of the female parent selection in inflorescence size as plants of the new *Chrysanthemum* have larger inflorescences than plants of the female parent selection. In addition, plants of



the new *Chrysanthemum* have slightly lighter colored ray florets than plants of the female parent selection.

Plants of the new *Chrysanthemum* differ from plants of the male parent selection in the following characteristics:

1. Plants of the new *Chrysanthemum* have smaller inflorescences than plants of the male parent selection.
2. Plants of the new *Chrysanthemum* have decorative pompon-type inflorescences whereas plants of the male parent selection have semi-decorative type inflorescences.

Plants of the new *Chrysanthemum* can be compared to plants of *Chrysanthemum X morifolium* 'DLFCORS3', not patented. In side-by-side comparisons plants of the new *Chrysanthemum* differ primarily from plants of 'DLFCORS3' in the following characteristics:

1. Plants of the new *Chrysanthemum* are not as freely flowering as plants of 'DLFCORS3'.
2. Ray florets of plants of the new *Chrysanthemum* are darker in color than ray florets of plants of 'DLFCORS3'.

Plants of the new *Chrysanthemum* can also be compared to plants of *Chrysanthemum X morifolium* 'DLFIZABA', not patented. In side-by-side comparisons plants of the new *Chrysanthemum* differ primarily from plants of 'DLFIZABA' in the following characteristics:

1. Plants of the new *Chrysanthemum* flower almost two weeks earlier than plants of 'DLFIZABA'.
2. Plants of the new *Chrysanthemum* have decorative pompon-type inflorescences whereas plants of 'DLFIZABA' have semi-decorative type inflorescences.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate 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 photographs 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 on the first sheet comprises a side perspective view of a typical flowering stem of 'DLFJAM3' grown as a spray-type.

The photograph on the second sheet comprises close-up views of the lower (top of the photographic sheet) and upper surfaces (bottom of the photographic sheet) of typical inflorescences and leaves of 'DLFJAM3'.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and measurements describe plants grown during the winter in ground beds in a glass-covered greenhouse in Maasdijk, The Netherlands and under cultural practices typical of commercial cut *Chrysanthemum* production. Plants were initially given long day/short night treatments followed by short day/long night treatments to induce flower initiation and development. During the production of the plants, day temperatures ranged from 18° C. to 22° C., night temperatures ranged from 20° C. to 25° C. and light levels averaged 8 klux. Plants were grown as single-stem plants and were eight weeks old when the photographs and the description were taken. In the following description, color references are made to The Royal Horticultural Society

Colour Chart, 2015 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Chrysanthemum X morifolium* 'DLFJAM3'.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Chrysanthemum X morifolium* identified as code designation DB 11953, not patented.

*Male, or pollen, parent.*—Proprietary selection of *Chrysanthemum X morifolium* identified as code designation DB 46712, not patented.

Propagation:

*Type.*—Terminal vegetative cuttings.

*Time to initiate roots, summer.*—About six days at temperatures about 24° C.

*Time to initiate roots, winter.*—About eight days at temperatures about 22° C.

*Time to produce a rooted young plant, summer.*—About twelve days at temperatures about 24° C.

*Time to produce a rooted young plant, winter.*—About two weeks at temperatures about 22° C.

*Root description.*—Fine, fibrous; typically creamy white in color, actual color of the roots is dependent on substrate composition, water quality, fertilizers, substrate temperature and physiological age of roots.

*Rooting habit.*—Freely branching, medium density.

Plant description:

*Plant and growth habit.*—Herbaceous pompon-type cut flower that is typically grown as a single stem spray-type; upright plant habit; vigorous growth habit and moderate to rapid growth rate.

*Plant height, soil level to top of foliar plane.*—About 72.7 cm.

*Plant height, soil level to top of inflorescence plane.*—About 76.9 cm.

*Plant (spray) diameter.*—About 16.3 cm.

*Flowering stem length.*—About 71 cm.

*Flowering stem diameter.*—About 5 mm.

*Flowering stem internode length.*—About 1.8 cm.

*Flowering stem strength.*—Strong.

*Flowering stem aspect.*—Erect.

*Flowering stem texture and luster.*—Moderately to densely pubescent; moderately glossy.

*Flowering stem color, developing.*—Close to 144B, at the internodes, close to 146C.

*Flowering stem color, developed.*—Close to 146C and 146D.

*Leaf description.*—Arrangement: Alternate; simple. Length: About 7.5 cm. Width: About 4.7 cm. Shape: Oblong. Apex: Short apiculate. Base: Attenuate. Margin: Palmately lobed, coarsely crenate to serrate; sinuses convergent and medium to deep in depth. Texture and luster, upper surface: Moderately pubescent, not rugose; moderately velvety; very slightly glossy. Texture and luster, upper surface: Moderately pubescent, prominent venation; slightly velvety; matte. Venation pattern: Pinnate, reticulate. Color: Developing leaves, upper surface: Close to 137A. Developing leaves, lower surface: Close to between 146B and 147B. Fully developed leaves, upper surface: Close to between NN137A and 147A; venation, close to 147C. Fully developed leaves, lower surface: Close to 147B; venation, close to 147B. Petioles: Length: About 1.5 cm. Diameter: About 2 mm by 2.5 mm. Strength: Moderately strong. Texture and luster, upper and lower surfaces: Densely pubescent;



slightly glossy. Color, upper surface: Close to 146B; edges, close to NN137B. Color, lower surface: Close to 146C; edges, close to between 146A and 147B. Stipules: Quantity and appearance: Two leafy stipules, opposite, at the petiole attachment to the stem. Length: About 4.5 mm. Width: About 6 mm. Shape: Flabellate. Texture and luster, upper surface: Moderately pubescent; very slightly glossy. Texture and luster, lower surface: Moderately pubescent; matte. Color, upper surface: Close to between NN137A and 147A. Color, lower surface: Close to 147B.

Inflorescence description:

*Appearance*.—Pompon-type (decorative) inflorescence form with narrow obovate-shaped ray florets and tubular disc florets (disc florets are inconspicuous); inflorescences borne perpendicular to peduncles and face mostly upright to slightly outwardly; ray and disc florets develop acropetally on a capitulum.

*Fragrance*.—Faintly fragrant.

*Flowering response*.—Under natural conditions, plant flower 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); uniform flowering habit and short response time, plants exposed to two weeks of long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about 39 days later when grown as a spray-type.

*Postproduction longevity*.—Good postproduction longevity; in an interior environment, inflorescences and foliage will maintain good color and substance for about two weeks; inflorescences persistent.

*Quantity of inflorescences*.—Freely flowering habit; when grown as a spray-type, about 13 inflorescences develop per flowering stem.

*Inflorescence size*.—Diameter: About 4 cm. Depth (height): About 1.6 cm. Disc diameter: About 2 mm.

*Receptacles*.—Height: About 4.5 mm. Diameter: About 5 mm. Shape: Flattened globular. Color: Close to 144D.

*Inflorescence buds*.—Height: About 7 mm. Diameter: About 1.4 cm. Shape: Flattened bowl-shaped. Texture and luster: Distally, smooth and glabrous; proximally, moderately pubescent; slightly glossy. Color: Distally, close to 75B and at the apex, close to NN74D (immature ray florets); proximally, close to 137B to 137C.

*Ray florets*.—Quantity and arrangement: About 300 arranged in about ten whorls. Length: About 1.3 cm. Width: About 5 mm. Shape: Narrowly obovate; concave, slightly carinate. Apex: Broadly acute to shallowly emarginate. Base: Attenuate. Margin: Entire; not undulate. Aspect: Initially upright to about 90° from vertical. Texture and luster, upper surface: Smooth, glabrous; moderately velvety; matte. Texture and luster, lower surface: Smooth, glabrous; slightly velvety; moderately glossy. Color: When opening, upper surface: Initially, close to 75B and at the apex, close to NN74D, then close to 75C; towards the base, close to 75D. When opening, lower surface: Initially, close to 75B and at the apex, close to NN74D, then close to 75C; towards the apex, close to 75A; towards the base, close to 75D. Fully

opened, upper surface: Close to 75D; venation, close to 75D; color does not change with development. Fully opened, lower surface: Close to 75C to 75D; venation, close to 75C to 75D; color does not change with development.

*Disc florets*.—Quantity and arrangement: About five spirally arranged in a single whorl at the center of the receptacle; disc florets inconspicuous. Length: About 5 mm. Diameter: About 1.2 mm. Shape: Lower 75% fused into a tube; upper 25% free. Apex: Narrowly acute. Margin: Entire. Texture and luster, inner and outer surfaces: Smooth, glabrous; glossy. Color, when opening, inner and outer surfaces: Apex: Close to N144C. Mid-section: Close to 13B. Base: Close to 150D. Color, fully opened, inner and outer surfaces: Apex: Close to 151D. Mid-section: Close to 13B to 13C. Base: Close to 150D.

*Involucral bracts*.—Quantity and arrangement: About 22 arranged in two whorls. Length: About 7 mm. Width: About 3 mm. Shape: Ovate. Apex: Obtuse. Base: Cuneate. Margin: Entire. Texture and luster, upper surface: Smooth, glabrous; glossy. Texture and luster, lower surface: Densely pubescent; matte. Color, upper surface: Close to 143A; margins, translucent, and close to 157D. Color, lower surface: Close to 137B to 137C; margins, translucent, close to 157D.

*Peduncles*.—Length, terminal peduncle: About 4.5 cm. Diameter, terminal peduncle: About 3 mm. Length, third peduncle: About 5.2 cm. Diameter, terminal peduncle: About 3 mm. Strength: Strong. Aspect, terminal peduncle: Mostly upright. Aspect, third peduncle: About 30° from the flowering stem axis. Texture and luster: Moderately pubescent; matte. Color: Close to between 143A and 144A.

*Reproductive organs*.—Androecium: Present on disc florets only. Quantity: About five per floret. Filament length: About 1.5 mm. Filament color: Close to 145D. Anther size: About 0.5 mm by 1.5 mm. Anther shape: Narrowly oblong. Anther color: Close to 12B. Pollen amount: Scarce. Pollen color: Close to 14B. Gynoecium: Present on both ray and disc florets. Quantity: One per floret. Pistil length: About 5 mm. Style length: About 4.5 mm. Style color: Close to N144B. Stigma diameter: About 1 mm. Stigma shape: Cleft, decurrent. Stigma color: Close to 13B. Ovary color: Close to 145D.

*Seeds and fruits*.—To date, seed and fruit production have not been observed on plants of the new *Chrysanthemum*.

*Pathogen & pest resistance*: Plants of the new *Chrysanthemum* have been observed to be resistant to *Fusarium Wilt* (*Fusarium oxysporum* f. sp. *chrysanthemi*) and White Rust strain NL1 (*Puccinia horiana*). To date, resistance to pests and other pathogens common to *Chrysanthemum* plants has not been observed on plants of the new *Chrysanthemum* grown under commercial conditions.

*Temperature tolerance*: Plants of the new *Chrysanthemum* have been observed to tolerate temperatures ranging from about -12° C. to 35° C. and to be suitable for USDA Hardiness Zones 8 to 10.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named 'DLFJAM3' as illustrated and described.







