



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

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(54) **CHRYSANTHEMUM PLANT NAMED**
‘FIMMSUNDARED’

(50) Latin Name: *Chrysanthemum*×*morifolium*
Varietal Denomination: **Fimmsundared**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
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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
‘Fimmsundared’, characterized by its upright to outwardly
spreading and uniformly mounded plant habit; freely branch-
ing habit; dense and full plant habit; uniform and freely flow-
ering habit; medium to large decorative-type inflorescences
with deep red-colored ray florets; early flowering habit; and
good garden performance.

1 Drawing Sheet

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Botanical designation: *Chrysanthemum*×*morifolium*.
Cultivar denomination: ‘FIMMSUNDARED’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct *Chry-
santhemum* plant, botanically known as *Chrysanthemum*×
morifolium, commercially grown as a garden *Chrysanthemum*
and hereinafter referred to by the name
‘Fimmsundared’.

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 early flowering garden *Chrysanthemum*
plants with numerous attractive inflorescences.

The new *Chrysanthemum* plant originated from a cross-
pollination made in January, 2008 by the Inventor in Fareham,
Hampshire, United Kingdom of a proprietary selection of
Chrysanthemum×*morifolium* identified as code number
82983, not patented, as the female, or seed, parent with a
proprietary selection of *Chrysanthemum*×*morifolium* identi-
fied as code number 83298, 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, 2008.

Asexual reproduction of the new *Chrysanthemum* by ter-
minal vegetative cuttings was first conducted in Fareham,
Hampshire, United Kingdom in December, 2008. Asexual
reproduction by terminal vegetative cuttings has shown that
the unique features of this new *Chrysanthemum* 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 environmental conditions and cultural
practices. The phenotype may vary somewhat with variations

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in environmental conditions such as temperature, daylength
and light intensity, without, however, any variance in geno-
type.

The following traits have been repeatedly observed and are
determined to be the unique characteristics of
‘Fimmsundared’. These characteristics in combination dis-
tinguish ‘Fimmsundared’ as a new and distinct *Chrysanthemum*
plant:

1. Upright to outwardly spreading and uniformly mounded
plant habit.
2. Freely branching habit; dense and full plant habit.
3. Uniform and freely flowering habit.
4. Medium to large decorative-type inflorescences with
deep red-colored ray florets.
5. Early flowering habit, under natural season conditions,
plants flower the first week in September in the United
Kingdom.
6. Good garden performance.

Plants of the new *Chrysanthemum* can be compared to
plants of the female parent selection. Plants of the new *Chry-
santhemum* differ from plants of the female parent selection,
in the following characteristics:

1. Under natural season conditions, plants of the new *Chry-
santhemum* flower earlier than plants of the female par-
ent selection.
2. Plants of the new *Chrysanthemum* have slightly smaller
inflorescences 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 *Chry-
santhemum* differ from plants of the male parent selection, in
the following characteristics:

1. Plants of the new *Chrysanthemum* have larger inflores-
cences 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 dark bronze-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to
plants of *Chrysanthemum*×*morifolium* ‘Yotabitha’, disclosed
in U.S. Plant Pat. No. 16,110. In side-by-side comparisons

conducted in Fareham, Hampshire, United Kingdom, plants of the new *Chrysanthemum* differed from plants of 'Yotabitha' in the following characteristics:

1. Plants of the new *Chrysanthemum* were more compact and mounded than and not as upright as plants of 'Yotabitha'.
2. Under natural season conditions, plants of the new *Chrysanthemum* flowered later than plants of 'Yotabitha'.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph illustrates the overall appearance of the new *Chrysanthemum* 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*.

The photograph comprises a top perspective view of a typical flowering plant of 'Fimmsundared' 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 pinched one time and were about twelve 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* × *morifolium* 'Fimmsundared'.

Parentage:

Female, or seed, parent.—Proprietary selection of *Chrysanthemum* × *morifolium* identified as code number 82983, not patented.

Male, or pollen, parent.—Proprietary selection of *Chrysanthemum* × *morifolium* identified as code number 83298, not patented.

Propagation:

Type.—Terminal vegetative cuttings.

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

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

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

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

Root description.—Fine, fibrous; light brown in color.

Rooting habit.—Freely branching; medium density.

Plant description:

Plant and growth habit.—Herbaceous decorative-type garden *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 habit; moderately vigorous growth habit.

Plant height.—About 13 cm.

Plant width.—About 23 cm.

Branching habit.—Freely branching habit, about five lateral branches develop after removal of terminal apex (pinching); each primary lateral with numerous secondary and tertiary lateral branches.

Lateral branches.—Length: About 9.5 cm. Diameter: About 2 mm. Internode length: About 7 mm. Strength: Strong, brittle. Aspect: About 70° from stem bending upwardly. Texture: Fine pubescence. Color: Close to 146A.

Leaves.—Arrangement: Alternate, simple. Length: About 3.5 cm. Width: About 3 cm. Shape: Palmately-lobed; roughly ovate with three to five lobes. Apex: Mucronate. Base: Obtuse or truncate with attenuate tendencies. Margin: Palmately lobed, sinuses between lateral lobes mostly divergent; dentate. Texture, upper and lower surfaces: Fine pubescence; veins prominent on lower surface. Color: Developing leaves, upper surface: Close to 137B. Developing leaves, lower surface: Close to 138A. Fully expanded leaves, upper surface: Close to 137B; venation, close to 138C. Fully expanded leaves, lower surface: Close to 138B; venation, close to 138C. Petioles: Length: About 1 cm. Diameter: About 2 mm. Texture, upper and lower surfaces: Fine pubescence. Color, upper surface: Close to 137B. Color, lower surface: Close to 138C.

Inflorescence description:

Form and flowering habit.—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 60 inflorescences developing per plant.

Fragrance.—Fragrant; pungent, herbaceous.

Flowering response.—Early flowering habit, plants exposed to natural season conditions begin flowering the first week of September in the United Kingdom.

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

Inflorescence buds.—Height: About 3 mm. Diameter: About 5 mm. Shape: Oblate. Color: Close to 143C.

Inflorescence height.—About 2.5 cm.

Inflorescence diameter.—About 4.7 cm.

Receptacles.—Height: About 2 mm. Diameter: About 4 mm. Shape: Hemispherical to spherical. Color: Close to 145B.

Ray florets.—Orientation: Initially upright, then about 90° from vertical. Length: About 2.2 cm. Width: About 7 mm. Shape: Ligulate. Apex: Mamillate or emarginate. Base: Fused into a short tube. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Number of ray florets per inflorescence: About 134 arranged in about seven whorls. Color: When opening, upper surface: Close to 53A. When opening, lower surface: Close to 184C. Fully opened, upper surface: Close to 46A; color becoming closer to 53B with development. Fully opened, lower surface: Close to 181C; color becoming closer to 182D with development.

Disc florets.—Disc floret development has not been observed on plants of the new *Chrysanthemum*.

Phyllaries.—Number of phyllaries per inflorescence: About 30 arranged in about three whorls. Length:

About 7 mm. Width: About 3 mm. Shape: Tapered oblong. Apex: Obtuse. Base: Truncate, fused. Margin: Entire. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Fine pubescence. Color, upper surface: Close to 144A. Color, lower surface: Close to 137D.

Peduncles.—Length, terminal peduncle: About 5 cm. Diameter, terminal peduncle: About 2 mm. Angle: About 60° from vertical. Strength: Moderately strong; flexible. Texture: Fine pubescence. Color: Close to 143D.

Reproductive organs.—Androecium: None observed. Gynoecium: Pistil length: About 6 mm. Stigma shape:

Bi-parted. Stigma color: Close to 12B. Style length: About 5 mm. Style color: Close to 11D. Ovary color: Close to NN155D.

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

⁵ Disease & pest resistance: Resistance to pathogens and pests common to *Chrysanthemum* plants has not been observed on plants of the new *Chrysanthemum*.

Garden performance: Plants of the new *Chrysanthemum* have demonstrated good garden performance and to tolerate temperatures from about 0° C. to about 35° C.

¹⁰ It is claimed:

1. A new and distinct *Chrysanthemum* plant named ‘Fimmsundared’ as illustrated and described.

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