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

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

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

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(NL)

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patent is extended or adjusted under 35  
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(22) Filed: **Dec. 7, 2018**

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**Related U.S. Application Data**

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8, 2017.

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*A01H 5/02* (2018.01)  
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(52) **U.S. Cl.**  
USPC ..... **Plt./287**  
CPC ..... *A01H 6/1424* (2018.05)

(58) **Field of Classification Search**  
USPC ..... Plt./287, 289  
CPC ..... *A01H 5/02*  
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named 'Domsudipi', characterized by its upright to outwardly spreading and uniformly and broadly mounded plant habit; moderately vigorous growth habit; freely branching habit; dense and full plant form; uniform and freely flowering habit; medium-sized decorative-type inflorescences with red purple to purple-colored ray florets; early season flowering habit, grown under natural season conditions, plants begin flowering in mid-August in the United Kingdom; and good garden performance.

**1 Drawing Sheet**

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

CROSS-REFERENCED TO CLOSELY-RELATED  
APPLICATIONS

Title: *Chrysanthemum* Plant Named 'DOMSUDITWHI'  
Applicant: Peter Wain  
Filed: Concurrently with this application Ser. No. 16/350,  
602

Title: *Chrysanthemum* Plant Named 'DOMSUDIYEL'  
Applicant: Peter Wain  
Filed: Concurrently with this application Ser. No. 16/350,  
601

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 garden *Chrysanthemum* plant, referred to as code number 65861 in U.S. Provisional Patent Application Ser. No. 62/708,405 and hereinafter referred to by the name 'Domsudipi'.

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 garden *Chrysanthemum* plants with numerous attractive inflorescences.

The new *Chrysanthemum* plant is a naturally-occurring whole plant mutation of a proprietary selection of *Chrysanthemum X morifolium* identified as code number 802358, not patented. The new *Chrysanthemum* plant was discovered

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and selected by the Inventor as a single flowering plant from within a population of plants of the mutation parent in a controlled greenhouse environment in Fareham, Hampshire, United Kingdom in March, 2014.

5 Asexual reproduction of the new *Chrysanthemum* plant by terminal vegetative cuttings was first conducted in Fareham, Hampshire, United Kingdom in March, 2014. Asexual reproduction by terminal vegetative cuttings has shown that  
10 the unique features of this new *Chrysanthemum* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

15 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,  
20 any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Domsudipi'. These characteristics in combination distinguish  
25 'Domsudipi' as a new and distinct *Chrysanthemum* plant:

1. Upright to outwardly spreading and uniformly and broadly mounded plant habit.
2. Moderately vigorous growth habit.
3. Freely branching habit; dense and full plant form.
4. Uniform and freely flowering habit.
- 30 5. Medium-sized decorative-type inflorescences with red purple to purple-colored ray florets.

6. Early season flowering habit, grown under natural season conditions, plants begin flowering in mid-August in the United Kingdom.

7. Good garden performance.

Plants of the new *Chrysanthemum* can be compared to plants of the mutation parent selection. Plants of the new *Chrysanthemum* differ primarily from plants of the mutation parent selection in ray floret color as plants of the new *Chrysanthemum* have inflorescences with red purple to purple-colored ray florets whereas plants of the mutation parent selection have inflorescences with lighter red purple-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to plants of *Chrysanthemum X morifolium* 'Domsuditwhi', disclosed in a U.S. Plant Patent application filed concurrently. Plants of the new *Chrysanthemum* differ primarily from plants of 'Domsuditwhi' in ray floret color as plants of the new *Chrysanthemum* have inflorescences with red purple to purple-colored ray florets whereas plants of 'Domsuditwhi' have inflorescences with light yellow to white-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to plants of *Chrysanthemum X morifolium* 'Domsudiyel', disclosed in U.S. Plant patent application Ser. No. 16/350,601. Plants of the new *Chrysanthemum* differ primarily from plants of 'Domsudiyel' in ray floret color as plants of the new *Chrysanthemum* have inflorescences with red purple to purple-colored ray florets whereas plants of 'Domsudiyel' have inflorescences with bright yellow-colored ray florets.

Plants of the new *Chrysanthemum* can also be compared to plants of *Chrysanthemum X morifolium* 'Fimmdayappleblos', disclosed in U.S. Plant Pat. No. 25,617. In side-by-side comparisons, plants of the new *Chrysanthemum* differ primarily from plants of 'Fimmdayappleblos' in the following characteristics:

1. Plants of the new *Chrysanthemum* flower later than plants of 'Fimmdayappleblos'.
2. Plants of the new *Chrysanthemum* and 'Fimmdayappleblos' differ in ray floret color as plants of the new *Chrysanthemum* have inflorescences with red purple to purple-colored ray florets whereas plants of 'Fimmdayappleblos' have inflorescences with light purple and white-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 top perspective view of a typical flowering plant of 'Domsudipi' grown in a container.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and measurements describe plants grown during the winter in 19-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 seven weeks (including propagation period) and then grown under short day/long night conditions to induce inflorescence initiation and development. Plants were 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 X morifolium* 'Domsudipi'.

Parentage: Naturally-occurring whole plant mutation of a proprietary selection of *Chrysanthemum X morifolium* identified as code number 802358, 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, 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 decorative-type garden *Chrysanthemum*; stems upright to outwardly spreading giving a uniformly broadly mounded appearance to the plant; numerous lateral branches and relatively short internodes, dense and full plant form; moderately vigorous growth habit and medium growth rate.

*Plant height*.—About 17 cm.

*Plant width*.—About 28 cm.

*Branching habit*.—Freely branching habit; about 13 lateral branches develop after removal of terminal apex (pinching).

*Lateral branches*.—Length: About 11 cm. Diameter: About 3 mm. Internode length: About 7 mm. Strength: Strong. Aspect: About 70° from vertical and then bending upwardly. Texture: Fine pubescence. Color: Close to 146C.

#### Leaf description:

*Arrangement*.—Alternate, simple.

*Length*.—About 2.8 cm.

*Width*.—About 2.1 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 surface*.—Fine pubescence; slightly rough.

*Texture, lower surface*.—Fine pubescence; waxy.

*Venation pattern*.—Pinnate.

*Color*.—Developing leaves, upper surface: Close to N137C. Developing leaves, lower surface: Close to N137B. Fully expanded leaves, upper surface: Close

to N137D; venation, close to 144A. Fully expanded leaves, lower surface: Close to 137C; venation, close to 144A.

*Petioles*.—Length: About 1.3 cm. Diameter: About 2 mm. Texture, upper surface: Fine pubescence; slightly rough. Texture, lower surface: Fine pubescence; waxy. Color, upper and lower surfaces: Close to 144A.

Inflorescence description:

*Form and flowering habit*.—Decorative-type inflorescence form with narrowly spatulate-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 78 inflorescences developing per plant during the flowering season.

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

*Flowering response*.—Early season flowering habit, plants exposed to natural season conditions begin flowering in mid-August in the United Kingdom; plants flower uniformly and continuously during the flowering season.

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

*Inflorescence buds*.—Height: About 4 mm. Diameter: About 6 mm. Shape: Oblate. Color: Close to 137C.

*Inflorescence diameter*.—About 4.4 cm.

*Inflorescence height*.—About 1.3 cm.

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

*Receptacles*.—Height: About 2 mm. Diameter: About 3 mm. Shape: Conical. Color: Close to 144B.

*Ray florets*.—Number of ray florets per inflorescence: About 92 arranged in about eight whorls. Orientation: Initially upright, then about 75° from vertical; moderately concave. Length: About 1.6 cm. Width: About 7 mm. Shape: Narrowly spatulate. Apex: Emarginate. Base: Fused into a short tube. Margin: Entire. Texture, upper and lower surfaces: Smooth,

glabrous; double-keeled. Color: When opening, upper surface: Close to 71D. When opening, lower surface: Close to 186D. Fully opened, upper surface: Close to 70B; proximally, close to NN155C; with development, color becoming closer to 77C and proximally, close to NN155C. Fully opened, lower surface: Close to 186D; with development, color becoming closer to 77D and proximally, closer to NN155C.

*Phyllaries*.—Number of phyllaries per inflorescence: About 18 arranged in about three whorls. Length: About 6 mm. Width: About 2 mm. Shape: Lanceolate. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper surface: Smooth, glabrous; waxy. Texture, lower surface: Fine pubescence; waxy. Color, upper surface: Close to 144A. Color, lower surface: Close to 137C.

*Peduncles*.—Length, terminal peduncle: About 3 cm. Diameter, terminal peduncle: About 1 mm. Angle: Erect to about 10° from vertical. Strength: Moderately strong; flexible. Texture: Densely pubescent. Color: Close to 144A.

*Reproductive organs*.—Androecium: None observed. Gynoecium: Present only on ray florets. Pistil length: About 4 mm. Stigma shape: Bi-parted. Stigma color: Close to 1B. Style length: About 2 mm. Style color: Close to 1C. Ovary color: Close to NN155C.

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

Pathogen & pest resistance: To date, 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.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named 'Dom-sudipi' as illustrated and described.

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