



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

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(54) **CHRYSANTHEMUM PLANT NAMED ‘GRACE TIME PINK’**

(50) Latin Name: *Chrysanthemum morifolium*
Varietal Denomination: **Grace Time Pink**

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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 85 days.

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A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./286**

(58) **Field of Classification Search** **Plt./286**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP14,155 P2 9/2003 Noodelijk Plt./286

OTHER PUBLICATIONS

2000 Ficor catalog, listing the variety ‘Grace Time’. See, e.g., pp. 4, 7 and 15.

2001 Ficor catalog, listing the variety ‘Grace Time’. See, e.g., pp. 4 and 7.

2002 Ficor catalog, listing the variety ‘Grace Time’. See, e.g., pp. 4 and 7.

2003 Ficor catalog, listing the variety ‘Grace Time’. See, e.g., pp. 2, 3 and 6.

2002 Van Zanten North America catalog listing the variety Grace Time. See, e.g., p. 7.

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(57) **ABSTRACT**

A new variety of *Chrysanthemum* plant named ‘Grace Time Pink,’ having a good uniform canopy of purple quill single flowers with a light green disc. The new variety has a medium vigor, free branching, uniform spreading habit and good foliage presentation.

1 Drawing Sheet

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Latin name of the genus and species: Botanical classification: *Chrysanthemum morifolium*.

Variety denomination: The new *Chrysanthemum* variety denomination is ‘Grace Time Pink.’

BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of *Chrysanthemum* botanically known as *Chrysanthemum morifolium*, and referred to by the cultivar name ‘Grace Time Pink.’ ‘Grace Time Pink,’ identified as 20911-0A, was discovered as a whole plant mutation grown in a controlled cultivated planting of the variety ‘Grace Time’ (unpatented seedling). The new variety ‘Grace Time Pink’ has been asexually reproduced by vegetative cuttings in Chichester, West Sussex, United Kingdom and the distinguishing characteristics are retained through successive generations of asexual reproduction.

BRIEF SUMMARY OF THE INVENTION

‘Grace Time Pink’ is a pot type of *Chrysanthemum* plant variety having purple quill single flowers.

Comparison with Parent

Plants of the new *Chrysanthemum* variety ‘Grace Time Pink’ are similar to the parent ‘Grace Time’ in plant habitat and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new *Chrysanthemum* variety ‘Grace Time Pink’

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compared to plants of the parent ‘Grace Time’ in the following characteristics.

1. The new variety ‘Grace Time Pink’ produces purple quill single flowers whereas the parent ‘Grace Time’ also produces purple quill single flowers.

2. Plants of the new variety ‘Grace Time Pink’ have smaller and shorter inflorescence than plants of the parent ‘Grace Time.’

3. Plants of the new variety ‘Grace Time Pink’ have a slower response than the plants of the parent ‘Grace Time.’

4. Plants of the new variety ‘Grace Time Pink’ have a shorter vigor than the plants of the parent ‘Grace Time.’

Comparison with Other Varieties

Plants of the new *Chrysanthemum* variety ‘Grace Time Pink’ are dissimilar to the variety ‘Scott’ (U.S. Plant Pat. No. 14,155) in plant habitat and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new *Chrysanthemum* variety ‘Grace Time Pink’ differed from plants of the ‘Scott’ variety in the following characteristics.

1. The new variety ‘Grace Time Pink’ produces purple quill single flowers whereas ‘Scott’ produces purple spoon tip single flowers.

2. Plants of the new variety ‘Grace Time Pink’ have larger and taller inflorescence than ‘Scott.’

BRIEF DESCRIPTION OF ILLUSTRATION

Typical specimens of the plant and flowers for the new *Chrysanthemum* variety 'Grace Time Pink' are shown in the accompanying digital photograph. The colors shown are as true as possible within the usual limits of this kind of illustration.

FIG. 1 is a whole plant view of the new variety 'Grace Time Pink' grown in a pot.

The plant shown in the illustration is 60 days from the commencement of Short Days.

DETAILED BOTANICAL DESCRIPTION

The following description of the new *Chrysanthemum* variety 'Grace Time Pink' is of plants grown in a greenhouse in Chichester, West Sussex, United Kingdom in the month of June. The cultivar has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in the environment such as temperature, length of day and light intensity, without any variance in genotype. The commercial classification of the new variety is a pot *Chrysanthemum*.

Plants of the new variety have been grown successfully under temperature conditions averaging about 19° C. at night and about 17° C. to 24° C. during the day under light conditions of about 5,000 to 6,000 foot candles. The plants respond well to the use of growth retardant, such as one B9 treatment at about 2 gm per liter. To produce a commercial product the plants may be pinched once with the center bud removed. The typical container size for commercial growth is 1 liter. It has been observed that the shelf life of the new variety is about 21 days with a response time of about 8 weeks. The new variety is suitable for growth in a temperature range of 15° C. to 25° C.

The new variety may be produced as a spray. The following description is with respect to a plant produced as pot. In the description of this new *Chrysanthemum* variety, color values have been taken from The Royal Horticultural Society Colour Chart (R.H.S.C.C.).

Plant

Plant type: Pot.

Habit: Upright and free branching.

Height (cm): 22.

Width (cm): 32.

Stem:

Length (cm).—5.5.

Diameter (cm).—0.8.

Texture.—Slightly pubescent.

Color.—139C.

Branching characteristics: Upright and free branching.

Length of lateral branches:

Length (cm).—14.

Diameter (cm).—0.6.

Texture.—Slightly pubescent.

Number of breaks from pinch: 5 to 7.

Response time: 55 days.

Vigor: Medium.

Shelf life: 21 days.

Life of blooms: 21 days.

Disease (susceptibility or resistance): None observed to date.

Pest (susceptibility or resistance): None observed to date.

Drought or temperature resistance: None observed to date.

Growth retardant type and treatment: 3 applications of 2.5 gm/liter B9 @ 2, 21 and 28 days after sticking of unrooted cuttings.

The plants were grown for 2 weeks in Long Day conditions (20 hours of light) and then transferred to Short Day conditions (13 hours of dark).

Propagation:

Type.—Vegetative Propagation Via Stem Cuttings.

Time to rooting.—14 days with soil temperatures of 18° C.

Rooting habit.—After 7 days the first roots emerge and form root primordia. In 14 Long Days a complete root system is developed.

Foliage

Number of leaves per lateral branch: 8 to 12.

Compound or single: Single.

Arrangement of leaves: Alternate.

Shape of leaf.—Typically 5 lobed.

Size of leaf.—Width (cm): 4.5. Length (cm): 9.

Leaf apex.—Acute.

Base.—Obtuse.

Attachment.—Petioled.

Aspect.—Slightly Undulating.

Margin.—Palmately lobed.

Surface characteristics.—Top: Slightly Pubescent.

Bottom: Pubescent.

Petiole:

Color.—139B.

Length (cm).—1.3.

Diameter (cm).—0.2.

Venation:

Color.—Upper side: 138B. Under side: 138C.

Color:

Mature leaf, upper side.—Near 137C; under side: near 138A.

Young leaf, upper side.—Near 137A; under side: near 138A.

Flower

Flower appearance: Matte.

Flower type: Single quill.

Flower form: Slightly cupped.

Flower shape: Circular.

Flowering habit: Cyme.

Number of blossoms per branch: 5.

Typical and observed flowering season: January to December.

Inflorescence form: Cyme.

Depth of fully expanded blossoms (cm).—1.5.

Diameter of fully expanded blossoms (cm).—5.

Phyllaries:

Number.—18.

Color.—138A.

Length (cm).—0.7.

Width (cm).—0.2.

Texture/appearance.—Pubescent.

Peduncle:

Length (cm).—13.

Diameter (cm).—0.5.

Angle from stem (degrees).—10.

Color.—138B.

Surface.—Pubescent.

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Habit.—Slightly undulating.

Strength.—Strong.

Pedicle:

Length.—Terminal (cm).—3; Lateral (cm): 4.

Diameter (cm).—0.2.

Color.—138B.

Surface.—Pubescent.

Habit.—Slightly undulating.

Strength.—Medium.

Ray florets:

Form/shape.—Straight and cylindrical.

Texture/appearance.—Matte.

Number per flower.—40.

Length (cm).—2.5 Width (cm): 0.4.

Apex.—Rounded.

Base.—Tapered.

Margin.—Entire.

Disc florets:

Form/shape.—Cylindric.

Texture/appearance.—Shiny.

Number per flower.—192.

Length (cm).—0.5; Width (cm): 0.1.

Diameter of disc (cm).—1.2.

Fragrance: None observed.

Flower bud (at onset of color):

Length (cm).—1.

Diameter (cm).—0.7.

Form/shape.—Globular.

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General flower color:

1. *Ray florets, upper side*.—Immature: near 63A and 63D. Mature: near 63B and 65B. Older/Fading: near 63C and 65C.

2. *Ray florets, under side*.—Immature: near 68B. Mature: near 68C. Older/Fading: near 68C.

3. *Disc florets*.—Immature: near 151A. Mature: near 151B. Older/Fading: near 151B.

4. *Bud*.—61B.

Flower progression with age: There is no change with the flower form, but there is a slight color fading with age.

Reproductive Organs

Gynoecium present on ray and disc florets:

Pistil number on ray florets per individual flower.—40.

Pistil number on disc florets per individual flower.—90.

Stigma color.—154A.

Stigma shape.—Forked.

Style color.—154B.

Style length on ray florets (cm).—0.3.

Style length on disc florets (cm).—0.3.

Androecium: None observed.

Fruit and seeds: None observed.

What is claimed is:

1. A new and distinct variety of *Chrysanthemum* plant, substantially as described and illustrated herein.

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