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(12) **United States Plant Patent**  
**Vandenberg et al.**

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

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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.

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(51) Int. Cl.<sup>7</sup> ..... **A01H 5/00**

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

(58) **Field of Search** ..... Plt./286, 297

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(57) **ABSTRACT**

A distinct cultivar of Chrysanthemum plant named  
‘Yohartford’, characterized by its upright, somewhat  
spreading, compact, and uniformly mounded plant habit;  
strong, dark green foliage; uniform flowering response;  
early flowering, eight-week response time, very large single  
anemone-type inflorescences that are about 11.8 cm in  
diameter, lavender pink-colored ray florets and yellow-  
tipped disc florets; and good postproduction longevity with  
inflorescences maintaining good substance and color for  
about three weeks in an interior environment.

**1 Drawing Sheet**

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**BACKGROUND OF THE INVENTION**

The present Invention relates to a new and distinct culti-  
var of Chrysanthemum plant, botanically known as *Den-  
dranthea grandiflora* and hereinafter referred to by the  
cultivar name Yohartford.

The new Chrysanthemum is a product of a planned  
breeding program conducted by the Inventors in Salinas,  
Calif. and Fort Myers, Fla. The objective of the breeding  
program is to create new potted Chrysanthemum cultivars  
with desirable inflorescence form and floret colors and good  
postproduction longevity.

The new Chrysanthemum originated from a cross made  
by the Inventors in February, 1995, in Salinas, Calif., of a  
proprietary Chrysanthemum seedling selection identified as  
YB-4470 as the female, or seed, parent with the Chrysan-  
themum cultivar Blush, disclosed in U.S. Plant Pat. No.  
7,985 as the male, or pollen, parent. The new Chrysanthem-  
um was discovered and selected by the Inventors in April,  
1996, as a single flowering plant within the progeny of the  
stated cross grown in a controlled environment in Fort  
Myers, Fla. The selection of this plant was based on its  
desirable inflorescence form and floret colors and good  
postproduction longevity.

Asexual reproduction of the new Chrysanthemum by  
vegetative tip cuttings was first conducted in Fort Myers,  
Fla. in June, 1996. Asexual reproduction by cuttings has  
shown that the unique features of this new Chrysanthemum  
are stable and reproduced true to type in successive genera-  
tions.

**SUMMARY OF THE INVENTION**

The cultivar Yohartford has not been observed under all  
possible environmental conditions. The phenotype may vary  
somewhat with variations in environment 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 ‘Yohart-

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ford’. These characteristics in combination distinguish  
‘Yohartford’ as a new and distinct Chrysanthemum:

1. Upright, somewhat spreading, compact, and uniformly  
mounded plant habit.
2. Strong, dark green foliage.
3. Uniform flowering response.
4. Early flowering, eight-week response time.
5. Can be grown as a disbud or spray-type.
6. Very large single anemone-type inflorescences that are  
about 11.8 cm in diameter.
7. Lavender pink-colored ray florets and yellow-tipped  
disc florets.
8. Good postproduction longevity with inflorescences  
maintaining good substance and color for about three weeks  
in an interior environment.

Plants of the new Chrysanthemum differ from plants of  
the cultivar, Dark Pink Yoblush, disclosed in U.S. Plant Pat.  
No. 11,995, in the following characteristics:

1. Plants of the new Chrysanthemum have single anemone-  
type inflorescences whereas plants of the cultivar Dark Pink  
Blush have single daisy-type inflorescences.
2. Plants of the new Chrysanthemum are more compact  
than plants of the cultivar Dark Pink Blush.
3. Ray florets of plants of the new Chrysanthemum twist  
more with age than ray florets of the plants of the cultivar  
Dark Pink Blush.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying colored photographs illustrate 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 photographs may  
differ from the color values cited in the detailed botanical  
description which more accurately describe the actual colors  
of the new Chrysanthemum.



The photograph at the top of the sheet comprises a top perspective view of a typical flowering plant of 'Yohartford'.

The photograph at the bottom of the sheet comprises a close-up view of typical inflorescences of the cultivar Yohartford.

#### DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Colour Chart except where general terms of ordinary dictionary significance are used. The following observations and measurements describe plants grown and flowered during the Spring in Salinas, Calif. and Leamington, Ontario, Canada, under greenhouse conditions which approximate those generally used in commercial potted Chrysanthemum production. Four unrooted cuttings were directly stuck in a 15-cm container and pinched once. Plants used for this description were grown as disbudded-types. Measurements and numerical values represent averages of typical flowering plants.

Botanical classification: *Dendranthema grandiflora* cultivar Yohartford.

Commercial classification: Single anemone-type potted Chrysanthemum.

Parentage:

*Female, or seed, parent.*—Proprietary Chrysanthemum seedling selection identified as YB-4470.

*Male, or pollen, parent.*—*Dendranthema grandiflora* cultivar Blush, disclosed in U.S. Plant Pat. No. 7,985.

Propagation:

*Type.*—Terminal tip cuttings.

*Time to rooting.*—Seven to ten days with soil temperatures of 21° C.

*Rooting habit.*—Fine, fibrous and well-branched.

Plant description:

*Appearance.*—Herbaceous single anemone-type potted Chrysanthemum that can be grown as a disbud or spray-type, but typically grown as a disbud. Inverted triangle; stems mostly upright and somewhat outwardly spreading giving a uniformly mounded appearance to the plant. About three lateral branches develop after removal of terminal apex (pinching). Moderately vigorous.

*Plant height.*—About 23 cm.

*Plant width.*—About 34 cm.

*Lateral branches.*—Length: About 13 cm. Diameter: About 3.5 mm. Internode length: About 1.3 cm. Strength: Flexible, but strong. Texture: Pubescent. Color: 144A.

*Foliage description.*—Arrangement: Alternate. Quantity per lateral stem: About 11. Length: About 4.9 cm. Width: About 4.2 cm. Apex: Mucronate. Base: Mostly truncate. Margin: Palmately lobed, sinuses between lateral lobes mostly convergent to overlapping. Texture: Upper and lower surfaces with very fine pubescence; veins prominent on lower surface. Color: Young foliage upper surface: 147A. Young foliage lower surface: 147B. Mature foliage upper surface: 147A. Mature foliage lower surface: 147B. Venation upper surface: 147B. Venation lower sur-

face: 147B. Petiole length: About 2.2 cm. Petiole diameter: About 3 mm. Petiole color: 147B to 147C.

Inflorescence description:

*Appearance.*—Single anemone-type inflorescence form with elongated oblong-shaped ray florets. Inflorescences borne on terminals above foliage. Disk and ray florets arranged acropetally on a capitulum. Not fragrant.

*Flowering response.*—Under natural conditions, plants 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). Plants exposed to three weeks of long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about eight weeks later; early flowering.

*Postproduction longevity.*—Inflorescences maintain good color and substance for about three weeks in an interior environment.

*Quantity of inflorescences.*—Can be grown as a disbud or spray-type, however typically grown as a disbud with one inflorescence per lateral stem; about three inflorescences per plant.

*Inflorescence bud.*—Height: About 7 mm. Diameter: About 7 mm. Color: Close to 137A.

*Inflorescence size.*—Diameter: About 11.8 cm. Depth (height): About 3.1 cm. Diameter of disc: About 4.4 cm. Receptacle diameter: About 8 mm.

*Ray florets.*—Shape: Elongated-oblong. Orientation: Initially upright, then about perpendicular to peduncle; with development, some twisting and somewhat reflexed. Length: About 5.5 cm. Width: About 1.2 cm. Apex: Mostly mammillate to dentate. Base: Attenuate; very short corolla tube. Margin: Entire. Texture: Smooth, glabrous, satiny. Number of ray florets per inflorescence: About 28; one row. Color: When opening, upper surface: 77B. When opening, lower surface: 77C to 77D. Fully opened, upper surface: 77B to 77C or close to 80C; fading to 77D with subsequent development. Fully opened, lower surface: 77C to 77D to 75D.

*Disc florets.*—Shape: Enlarged, flared. Apex: Five-pointed, fringed appearance. Length: About 2.1 cm. Width: Apex, about 6 mm; base, about 1 mm. Number of disc florets per inflorescence: About 210. Color: Immature: Close to 154A to 3A to 5A. Mature: Apex: Tipped with 3A to 9A to 12A. Mid-section: Throat, pale 58A to 77A to 77B; tube, 77C to 77D. Base: Close to 151A.

*Reproductive organs.*—Androecium: Present on disc florets only. Anther color: 9A. Pollen amount: None observed. Gynoecium: Present on both ray and disc florets.

Disease resistance: Resistance to pathogens common to Chrysanthemums has not been observed on plants grown under commercial greenhouse conditions.

Seed production: Seed production has not been observed.

It is claimed:

1. A new and distinct cultivar of Chrysanthemum plant named 'Yohartford', as illustrated and described.

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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : PP 12,513 P2  
DATED : April 2, 2002  
INVENTOR(S) : Vandenberg et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page,

Item [\*] Notice, delete the phrase "by 0 days" and insert -- by 15 days --

Signed and Sealed this

Eleventh Day of May, 2004

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large loop for the "J" and a cursive "Dudas".

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JON W. DUDAS  
*Acting Director of the United States Patent and Trademark Office*