

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

(10) **Patent No.:** **US PP19,021 P2**  
(45) **Date of Patent:** **Jul. 15, 2008**

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

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

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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.

(21) Appl. No.: **11/728,156**

(22) Filed: **Mar. 23, 2007**

(51) **Int. Cl.**  
**A01H 5/00** (2006.01)

(52) **U.S. Cl.** ..... **Plt./297**

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

See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named  
‘Yophyllis’, characterized by its compact, upright and out-  
wardly spreading plant habit; freely branching habit; dense  
and full plant habit; uniform and freely flowering habit;  
daisy-type inflorescences with elongated oblong to ligulate-  
shaped ray florets; coral pink-colored ray florets; and natural  
season flowering about September 11<sup>th</sup> in the Northern  
Hemisphere.

**1 Drawing Sheet**

**1**

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

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of *Chrysanthemum* plant, botanically known as  
*Chrysanthemum*×*morifolium*, commercially grown as a gar-  
den *Chrysanthemum* and hereinafter referred to by the name  
‘Yophyllis’.

The objective of the breeding program is to create new  
garden-type *Chrysanthemum* cultivars having inflorescences  
with desirable inflorescence forms, attractive floret colors  
and good garden performance.

The new *Chrysanthemum* originated from a cross-  
pollination made by the Inventor in January, 2003, in  
Salinas, Calif. of a proprietary selection of *Chrysanthemum*×  
*morifolium* identified as code number 00-M401, not  
patented, as the female, or seed, parent with the  
*Chrysanthemum*×*morifolium* cultivar Atlantico, disclosed in  
U.S. Plant patent application Ser. No. 09/550,149, now  
abandoned, as the male, or pollen, parent. The new *Chrysan-*  
*themum* was discovered and selected by the Inventor as a  
single flowering plant within the progeny of the stated cross-  
pollination in a controlled environment in Alva, Fla. in  
September, 2003.

Asexual reproduction of the new *Chrysanthemum* by veg-  
etative cuttings was first conducted in Alva, Fla. in  
December, 2003. 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**

Plants of the cultivar Yophyllis have 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.

**2**

The following traits have been repeatedly observed and  
are determined to be the unique characteristics of ‘Yophyl-  
lis’. These characteristics in combination distinguish  
‘Yophyllis’ as a new and distinct garden *Chrysanthemum*  
cultivar:

1. Compact, upright and outwardly spreading plant habit.
2. Freely branching habit; dense and full plant habit.
3. Uniform and freely flowering habit.
4. Daisy-type inflorescences with elongated oblong to  
ligulate-shaped ray florets.
5. Coral pink-colored ray florets.
6. Natural season flowering about September 11<sup>th</sup> in the  
Northern Hemisphere.

In side-by-side comparisons conducted in Alva, Fla.,  
plants of the new *Chrysanthemum* differed from plants of the  
female parent selection in the following characteristics:

1. Plants of the new *Chrysanthemum* were smaller than  
plants of the female parent selection.
2. Plants of the new *Chrysanthemum* flowered more uni-  
formly and about one week earlier than plants of the  
female parent selection when grown under natural sea-  
son conditions.
3. Plants of the new *Chrysanthemum* and the female par-  
ent selection differed in inflorescence form.
4. Ray florets of plants of the new *Chrysanthemum* were  
lighter in color than ray florets of plants of the female  
parent selection.

In side-by-side comparisons conducted in Alva, Fla.,  
plants of the new *Chrysanthemum* differed from plants of the  
male parent, the cultivar Atlantico, in the following charac-  
teristics:

1. Plants of the new *Chrysanthemum* flowered earlier than  
plants of the cultivar Atlantico when grown under natu-  
ral season conditions.
2. Plants of the new *Chrysanthemum* had larger inflores-  
cences than plants of the cultivar Atlantico.
3. Plants of the new *Chrysanthemum* and the cultivar  
Atlantico differed in ray floret color as plants of the



cultivar Atlantico had yellow bronze-colored ray florets.

4. Ray floret color of plants of the new *Chrysanthemum* faded slower than ray floret color of plants of the cultivar Atlantico.

Plants of the new *Chrysanthemum* can be compared to plants of the *Chrysanthemum* cultivar Yocamille, disclosed in U.S. Plant Pat. No. 13,791. In side-by-side comparisons conducted in Alva, Fla., plants of the new *Chrysanthemum* differed from plants of the cultivar Yocamille in the following characteristics:

1. Plants of the new *Chrysanthemum* flowered earlier than plants of the cultivar Yocamille when grown under natural season conditions.
2. Plants of the new *Chrysanthemum* and the cultivar Yocamille differed in ray floret color as plants of the cultivar Yocamille had light pink-colored ray florets.
3. Ray floret color of plants of the new *Chrysanthemum* faded slower than ray floret color of plants of the cultivar Yocamille.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph illustrates the overall appearance of the new *Chrysanthemum*. The photograph show 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 side perspective view of a typical flowering plant of 'Yophyllis'.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and measurements describe plants grown in Alva, Fla. during the winter in a polycarbonate-covered greenhouse and under conditions and practices which approximate those generally used in commercial garden *Chrysanthemum* production. During the production of the plants, day temperatures averaged 27° C. and night temperatures averaged 18° C. Plants were grown in containers, exposed to long day/short night conditions and pinched about 17 days later. Three days before the pinch, the photoinductive short day/long night treatments were started. Plants used in the photographs and for the description were about three months old. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Chrysanthemum*×*morifolium* cultivar Yophyllis.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Chrysanthemum*×*morifolium* identified as code number 00-M401, not patented.

*Male, or pollen, parent.*—*Chrysanthemum*×*morifolium* cultivar Atlantico, disclosed in U.S. Plant patent application Ser. No. 09/550,149, now abandoned.

Propagation:

*Type.*—Terminal vegetative cuttings.

*Time to initiate roots.*—About four days at temperatures of about 21° C.

*Time to produce a rooted young plant.*—About ten to twelve days at temperatures of about 21° C.

*Root description.*—Fine, fibrous; white in color.

*Rooting habit.*—Freely branching.

Plant description:

*Appearance.*—Herbaceous daisy-type garden *Chrysanthemum*. Compact, stems upright and outwardly spreading giving a uniformly mounded appearance to the plant. Freely branching habit, about eight lateral branches develop after removal of terminal apex (pinching) each with numerous secondary laterals; dense and full plant habit. Moderately vigorous growth habit.

*Plant height.*—About 14 cm.

*Plant width.*—About 25 cm.

*Lateral branches.*—Length: About 10.5 cm. Diameter: About 3 mm. Internode length: About 9 mm. Strength: Strong, flexible. Texture: Pubescent. Color: Close to 146A.

*Leaves.*—Arrangement: Alternate, simple. Length: About 4.1 cm. Width: About 3.6 cm. Apex: Acute. Base: Truncate to attenuate. Margin: Palmately lobed, sinuses between lateral lobes parallel to divergent. Texture, upper and lower surfaces: Fine pubescence; veins prominent on lower surface. Color: Developing foliage, upper and lower surfaces: 147A. Fully expanded foliage, upper surface: 147A; venation, close to 147B. Fully expanded foliage, lower surface: Close to 147B; venation, close to 147B. Petiole: Length: About 1.75 cm. Diameter: About 2 mm. Texture, upper and lower surfaces: Pubescent. Color, upper surface: 147A to 147B. Color, lower surface: 147B.

Inflorescence description:

*Appearance.*—Daisy-type inflorescence form with elongated oblong to ligulate-shaped ray florets. Inflorescences borne on terminals above foliage. Disc and ray florets arranged acropetally on a capitulum. Inflorescences faintly fragrant.

*Flowering response.*—Under natural season conditions, plants flower about September 11<sup>th</sup> 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). Early flowering habit; plants exposed to photoinductive short day/long night conditions flower about 44 days later.

*Postproduction longevity.*—Inflorescences maintain good color and substance for about 3.5 weeks in an outdoor nursery.

*Quantity of inflorescences.*—About seven to ten inflorescences develop per lateral branch.

*Inflorescence bud.*—Height: About 4 mm. Diameter: About 6 mm. Shape: Oblate. Color: Close to 147A.

*Inflorescence size.*—Diameter: About 4.75 cm. Depth (height): About 8 mm. Disc diameter: About 1.1 cm. Receptacle diameter: About 3 mm. Receptacle height: About 4 mm.

*Ray florets.*—Shape: Elongated-oblong to ligulate. Orientation: Initially upright, then about 90° from vertical or perpendicular to peduncle. Aspect: Initially incurved, then mostly flat. Length: About 2.4 cm. Width: About 5 mm. Apex: Emarginate, rounded or acute. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous, satiny. Number of ray florets per inflorescence: About 30 arranged in one or two whorls. Color: When opening, upper surface: Close to 50A to 50B. When opening, lower surface: Close to 50C. Fully opened, upper

## 5

surface: Close to between 50B and 65A; color becoming closer to 65B to 65C with development. Fully opened, lower surface: Close to between 50C and 65C.

*Disc florets*.—Shape: Tubular, elongated. Length: About 6 mm. Diameter: About 1.25 mm. Number of disc florets per inflorescence: About 87. Color, immature: Apex: Close to 145A. Mid-section: Close to 2A. Base: Close to 157A. Color, mature: Apex: Close to 9A. Mid-section and base: Close to 155D.

*Phyllaries*.—Number of phyllaries per inflorescence: About 20 arranged in about two whorls. Length: About 5 mm. Width: About 2 mm. Shape: Deltoid. Apex: Acute. Base: Truncate. Texture, upper surface: Smooth, waxy. Texture, lower surface: Pubescent. Color, upper surface: Close to 138A; towards the margins, 157D. Color, lower surface: Close to 147A.

*Peduncles*.—Length: About 3.2 cm. Diameter: About 1 mm. Angle: About 45° from vertical. Strength: Strong; flexible. Texture: Pubescent; longitudinally ridged. Color: Close to 146A.

## 6

*Reproductive organs*.—Androecium: Stamen number: About five per floret. Filament length: About 2 mm. Filament color: Close to 145D. Anther length: About 2 mm. Anther shape: Oblong. Anther color: Close to 9A. Pollen amount: None observed. Gynoecium: Pistil length: About 5 mm. Stigma shape: Bi-parted. Stigma color: Close to 3B. Style length: About 3 mm. Style color: Close to 1C. Ovary color: Close to 157A.

*Seed/fruit*.—Seed and fruit production has not been observed.

Disease/pest resistance: Resistance to pathogens and pests common to *Chrysanthemums* has not been observed on plants grown under commercial conditions.

Garden performance: Plants of the new *Chrysanthemum* have demonstrated excellent garden performance and to tolerate temperatures from about 0° C. to about 38° C.

It is claimed:

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

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