



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

(10) **Patent No.:** **US PP21,802 P2**
(45) **Date of Patent:** **Mar. 22, 2011**

(54) **CHRYSANTHEMUM PLANT NAMED ‘PPP PADC 09’**

(50) Latin Name: *Chrysanthemum morifolium*
Varietal Denomination: **PPP PADC 09**

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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 27 days.

(21) Appl. No.: **12/462,283**

(22) Filed: **Aug. 1, 2009**

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

(52) **U.S. Cl.** **Plt./287**

(58) **Field of Classification Search** Plt./287
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP12,923 P2 * 9/2002 Bergman Plt./287
PP18,105 P2 * 10/2007 Pieters Plt./287

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(57) **ABSTRACT**

A new and distinct *Chrysanthemum* plant cultivar is disclosed, characterized by large decorative type inflorescences, consistent flowering response to short days, blooming consistently after 49 days of short day length, dark red-purple ray florets, free branching habit, and a consistent natural season flowering habit during the second week of September.

1 Drawing Sheet

1

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

Variety denomination: ‘PPP PADC 09’.

BACKGROUND OF THE INVENTION

The new cultivar ‘PPP PADC 09’ is a product of a naturally occurring whole plant mutation of ‘GEDI TWO PAD’ (U.S. Plant Pat. No. 14,501). The new cultivar was discovered by Dirk Pieters in September of 2001 in a greenhouse in Oostnieuwkerke, Belgium.

Asexual reproduction of the new cultivar ‘PPP PADC 09’ by terminal cuttings was performed in Oostnieuwkerke, Belgium and Oxnard, Calif., and has shown that the unique features of this new cultivar are stable and reproduced true to type on successive generations.

SUMMARY OF THE INVENTION

The cultivar ‘PPP PADC 09’ 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 ‘PPP PADC 09.’ These characteristics in combination distinguish ‘PPP PADC 09’ as a new and distinct *Chrysanthemum* cultivar:

1. Large, dark red-purple, decorative-type inflorescences;
2. Consistent natural season flowering habit during the second week of September;
3. Free branching habit; and
4. Consistent flowering response to short days, blooming consistently after 49 days of short day length.

Plants of the new cultivar ‘PPP PADC 09’ are similar to plants of the parent variety, ‘GEDI TWO PAD’ in most horticultural characteristics; however plants of the new cultivar

2

‘PPP PADC 09’ are shorter with a wider plant spread. Also, the new cultivar ‘PPP PADC 09’ has a smaller inflorescence diameter and longer inflorescence longevity. Additionally, the ray florets of ‘PPP PADC 09’ are a darker purple. Finally, ‘PPP PADC 09’ naturally blooms one week later than the parent variety ‘GEDI TWO PAD.’

In comparison to the commercially available variety ‘PPP POB LAV05’ (U.S. Plant Pat. No. 18,015), ‘PPP PADC 09’ is smaller in both height and plant spread. Additionally, the new variety ‘PPP PADC 09’ has a longer inflorescence longevity. Further, the ray florets of the comparable variety ‘PPP POB LAV05’ are a different color than the ray florets of ‘PPP PADC09’. Finally, ‘PPP PADC 09’ blooms one to two weeks later than the comparable variety ‘PPP POB LAV05’.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph in the drawing illustrates in full color a typical plant of ‘PPP PADC 09’ grown in a 2 gallon container. One cutting was used in the pot, planted mid May and grown under outdoor field conditions. The colors are as nearly true as is reasonably possible in a color representation of this type.

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 ‘PPP PADC 09’ plants grown in Oxnard, Ventura County, Calif., during the months of May through October 2006. The growing temperature ranged from 12° C. to 15° C. at night to 12° C. to 20° C. during the day. Measurements and numerical values represent averages of typical flowering types.

Botanical classification: *Chrysanthemum morifolium* cultivar ‘PPP PADC 09.’

Commercial classification: Garden-type *Chrysanthemum*.

PROPAGATION

Time to rooting: 7 to 14 days at approximately 21° C.
Root description: Fine, fibrous.

PLANT

Growth habit: Mounding herbaceous perennial.
Height: Approximately 25 cm.
Plant spread: Approximately 40 cm.
Growth rate: Moderate.
Branching characteristics: Free Branching.
Length of lateral branches: Approximately 20 cm.
Number of leaves per lateral branch: Approximately 32.
Age of plant described: Approximately 145 days.

FOLIAGE

Leaf:

Arrangement.—Alternate single.
Average length.—Approximately 4.5 cm.
Average width.—Approximately 5.5 cm.
Shape of blade.—Ovate.
Apex.—Acuminate.
Base.—Attenuate.
Attachment.—Stalked.
Margin.—Serrate.
Texture of top surface.—Lightly pubescent.
Texture of bottom surface.—Lightly pubescent.
Leaf internode length.—Approximately 0.6 cm.
Color.—Young foliage upper side: Near Yellow-Green 147A. Young foliage under side: Near Yellow-Green 147B. Mature foliage upper side: Near Green 137A. Mature foliage under side: Near Green 137B.
Venation.—Type: Palmately net. Venation color upper side: Near Green 138A. Venation color under side: Near Green 138B.

Petiole:

Average length.—Approximately 1.6 cm.
Color.—Near Green 138A.
Diameter.—Approximately 0.2 cm.

BLOOM

Inflorescence:

Flowering habit.—Induced by darkness period greater than 13.5 hours, approximately 49 days of appropriate day length required to induce and develop blooms.
Inflorescence form.—Decorative.
Natural flowering season.—Approximately the second week in September.
Number of inflorescences per lateral branch.—Approximately 6.
Inflorescence diameter.—Approximately 3.5 cm.
Inflorescence depth.—Approximately 1.5 cm.
Inflorescence longevity on plant.—Approximately 30 to 34 days.
Persistence.—Persistent.

Ray florets:

Appearance.—Matte.
Texture.—Smooth.
Average number of ray florets per inflorescence.—113.
Shape.—Oblanceolate.
Aspect.—Flat.
Margin.—Entire.
Apex.—Obtuse.

Length.—Approximately 1.3 cm.

Width.—Approximately 0.5 cm.

Color.—Upper surface at first opening: Near Red-Purple 71A. Upper surface at maturity: Near Red-Purple 70A. Upper surface at fading: Near Red-Purple 70B. Under surface at first opening: Near Red-Purple 71A. Under surface at maturity: Near Purple 77A. Under surface at fading: Near Red-Purple 70C.

Disc florets:

Appearance.—Shiny.

Texture.—Smooth.

Average number of florets per disc.—Approximately 32.

Shape.—Cylindric.

Apex.—Obtuse.

Average length.—Approximately 0.5 cm.

Average width.—Approximately 0.2 cm.

Color.—At first opening: Near Yellow-Green 154C. At maturity: Near Yellow 9A. At fading: Near Yellow 9A.

20 Peduncle:

Length.—At terminal end (shortest): Approximately 2.5 cm. At lateral end (longest): Approximately 6.5 cm.

Angle to stem.—Acute.

Strength.—Moderate.

Color.—Near Green 138A.

Habit.—Upright.

Diameter.—Approximately 0.2 cm.

Surface texture.—Lightly pubescent.

30 Inflorescence bud:

Length.—Approximately 0.4 cm.

Diameter.—Approximately 0.3 cm.

Form.—Globular.

Color.—Near Red-Purple 71A.

35 Involucral bracts (phyllaries):

Appearance.—Matte.

Texture.—Lightly pubescent.

Number.—Approximately 20.

Shape.—Lanceolate.

Margin.—Entire.

Apex.—Obtuse.

Length.—Approximately 0.4 cm.

Width.—Approximately 0.3 cm.

Color.—Upper side: Near Green 137A. Under side: Near Green 137C.

REPRODUCTIVE ORGANS

50 Ray florets:

Number of pistils per floret.—1.

Stigma shape.—2 branched.

Stigma color.—Near Yellow 9A.

Style color.—Near Green-Yellow 1D.

Style length.—Approximately 0.3 cm.

Stamens.—Absent.

Disc florets:

Number of pistils per floret.—1.

Stigma shape.—Cylindric.

Stigma color.—Near Yellow 9A.

Style length.—Approximately 0.2 cm.

Style color.—Near Green-Yellow 1D.

Number of stamens per floret.—Approximately 5.

Anther shape.—Tubular.

Anther color.—Near Yellow 9A.
Pollen color.—No pollen detected.

OTHER CHARACTERISTICS

Disease resistance: Neither resistance nor susceptibility to diseases or pests has been observed in this variety.
Drought tolerance/cold tolerance: Flowering plants are hardy to low temperatures about −2° C. Non-flowering plants are hardy in the approximate range of 3° C. to −6° C., depend-

ing upon duration of cold and amount of moisture in the soil. With adequate water plants are hardy to a high temperature of 45° C.
Fruit/seed production: Commercially, this plant is not used or observed in a stage where seeds would be produced. Therefore, seed production has not been observed.
What is claimed is:
1. A new and distinct cultivar of *Chrysanthemum* plant named ‘PPP PADC 09’ as herein illustrated and described.

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