



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

(10) **Patent No.:** **US PP21,750 P2**
(45) **Date of Patent:** **Mar. 1, 2011**

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

(50) Latin Name: *Chrysanthemum morifolium*
Varietal Denomination: **PPP CLIO 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 17 days.

(21) Appl. No.: **12/462,279**

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

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

(52) **U.S. Cl.** **Plt./293**

(58) **Field of Classification Search** **Plt./293**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP14,472	P3 *	1/2004	Pieters	Plt./293
PP14,501	P3 *	2/2004	Pieters	Plt./292
PP15,556	P2 *	2/2005	Boeder	Plt./293
2003/0208820	P1 *	11/2003	Pieters	Plt./293

* cited by examiner

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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 ray florets, free branching habit, and a consistent natural season flowering habit during the third week of September.

1 Drawing Sheet

1

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

Variety denomination: ‘PPP CLIO 09’.

BACKGROUND OF THE INVENTION

The new cultivar ‘PPP CLIO 09’ is a product of a cross between the male parent ‘GEM TWO CAM’ (U.S. Plant Pat. No. 14,472) and the female parent ‘GEDI TWO PAD’ (U.S. Plant Pat. No. 14,501). The new cultivar was discovered and selected by Dirk Pieters in October of 2001 in a greenhouse in Oostnieuwkerke, Belgium.

Asexual reproduction of the new cultivar ‘PPP CLIO 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 CLIO 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 CLIO 09.’ These characteristics in combination distinguish ‘PPP CLIO 09’ as a new and distinct *Chrysanthemum* cultivar:

1. Large, red, decorative-type inflorescences;
2. Consistent natural season flowering habit during the third 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 CLIO 09’ are similar to plants of the male parent variety, ‘GEDI TWO CAM’ in most

2

horticultural characteristics, however plants of the new cultivar ‘PPP CLIO 09’ are shorter but have a wider plant spread. Also, the new cultivar ‘PPP CLIO 09’ has a smaller inflorescence diameter and longer inflorescence longevity. Additionally, the ray florets of ‘PPP CLIO 09’ are a lighter but brighter red than the male parent. Finally, ‘PPP CLIO 09’ naturally blooms two to three weeks later than the male parent ‘GEDI TWO CAM.’

Plants of the new cultivar ‘PPP CLIO 09’ are similar to plants of the female parent variety, ‘GEDI TWO PAD’ in most horticultural characteristics; however plants of the new cultivar ‘PPP CLIO 09’ are shorter. Also, the new cultivar ‘PPP CLIO 09’ has a longer inflorescence longevity. Additionally, the ray florets of ‘PPP CLIO 09’ are a bright red compared to the pink-purple ray florets of the female parent. Finally, ‘PPP CLIO 09’ naturally blooms two to three weeks later than the female parent ‘GEDI TWO PAD.’

In comparison to the commercially available variety ‘GEDI TWO CAM’ (U.S. Plant Pat. No. 14,472), ‘PPP CLIO 09’ is shorter and wider. Additionally, the new variety ‘PPP CLIO 09’ has a smaller inflorescence diameter and lighter red ray florets. Further, the new variety ‘PPP CLIO 09’, blooms two to three weeks later than the comparable variety. Finally, ‘PPP CLIO 09’ has longer inflorescence longevity.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph in the drawing illustrates in full color a typical plant of ‘PPP CLIO 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. 5

The following observations and measurements describe ‘PPP CLIO 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 10

values represent averages of typical flowering types.

Botanical classification: *Chrysanthemum morifolium* cultivar

‘PPP CLIO 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 17 cm.

Plant spread: Approximately 33 cm.

Growth rate: Moderate.

Branching characteristics: Free Branching.

Length of lateral branches: Approximately 13 cm.

Number of leaves per lateral branch: Approximately 25.

Age of plant described: Approximately 138 days.

FOLIAGE

Leaf:

Arrangement.—Alternate single.

Average length.—Approximately 3.9 cm.

Average width.—Approximately 3.1 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 0.7 cm.

Color.—Young foliage upper side: Near Yellow-Green 45

147A. Young foliage under side: Near Yellow-Green

147B. Mature foliage upper side: Near Yellow-Green

147A. Mature foliage under side: Near Yellow-Green

147B.

Venation.—Type: Palmately net. Venation color upper 50

side: Near Green 138B. Venation color under side:

Near Green 138C.

Petiole:

Average length.—Approximately 1.4 cm.

Color.—Near Green 138B.

Diameter.—Approximately 0.3 cm.

BLOOM

Inflorescence:

Flowering habit.—Induced by darkness period greater 60
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 third 65
week in September.

Number of inflorescences per lateral branch.—Approximately 7.

Inflorescence diameter.—Approximately 4.1 cm.

Inflorescence depth.—Approximately 2 cm.

Inflorescence longevity on plant.—Approximately 28 to 34 days.

Persistence.—Persistent.

Ray florets:

Appearance.—Matte.

Texture.—Smooth.

Average number of ray florets per inflorescence.—104.

Shape.—Oblanceolate.

Aspect.—Flat.

Margin.—Entire.

Apex.—Obtuse.

Length.—Approximately 1.6 cm.

Width.—Approximately 0.7 cm.

Color.—Upper surface at first opening: Near Red 46A.

Upper surface at maturity: Near Red 46D. Upper sur-

face at fading: Near Red 46D. Under surface at first

opening: Near Red 47A. Under surface at maturity:

Near Red 47A. Under surface at fading: Near Red

47B.

Disc florets:

Appearance.—Shiny.

Texture.—Smooth.

Average number of florets per disc.—Approximately 5.

Shape.—Cylindrical.

Apex.—Obtuse.

Average length.—Approximately 0.2 cm.

Average width.—Approximately 0.1 cm.

Color.—At first opening: Near Yellow-Green 154C. At 35

maturity: Near Yellow 13A. At fading: Near Yellow

13A.

Peduncle:

Length.—At terminal end (shortest): Approximately 3

cm. At lateral end (longest): Approximately 8.2 cm.

Angle to stem.—Acute.

Strength.—Moderate.

Color.—Near Green 138B.

Habit.—Upright.

Diameter.—Approximately 0.2 cm.

Surface texture.—Lightly pubescent.

Inflorescence bud:

Length.—Approximately 0.6 cm.

Diameter.—Approximately 1 cm.

Form.—Globular.

Color.—Near Greyed-Purple 185A.

Involucral bracts (phyllaries):

Appearance.—Matte.

Texture.—Lightly pubescent.

Number.—Approximately 27.

Shape.—Lanceolate.

Margin.—Entire.

Apex.—Obtuse.

Length.—Approximately 0.5 cm.

Width.—Approximately 0.2 cm.

Color.—Upper side: Near Green 137A. Under side: Near 65
Green 137B.

REPRODUCTIVE ORGANS

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.—Cylindrical.
 Stigma color.—Near Yellow 13A.
 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 13A.
 Pollen color.—No pollen detected.

OTHER CHARACTERISTICS

Disease resistance: Neither resistance nor susceptibility to
5 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-
10 ing upon duration of cold and amount of moisture in the
soil. With adequate water plants are hardy to a high tem-
perature of 45° C.
Fruit/seed production: Commercially, this plant is not used or
observed in a stage where seeds would be produced. There-
15 fore, seed production has not been observed.

What is claimed is:
1. A new and distinct cultivar of *Chrysanthemum* plant
named ‘PPP CLIO 09’ as herein illustrated and described.

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