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**Pieters**

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

(50) Latin Name: *Chrysanthemum morifolium*  
Varietal Denomination: **PPP IZL 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 5 days.

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

(52) **U.S. Cl.** ..... **Plt./290**

(58) **Field of Classification Search** ..... **Plt./290**  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP13,731 P3 \* 4/2003 Pieters ..... Plt./290  
PP14,382 P3 \* 12/2003 Pieters ..... Plt./290

\* cited by examiner

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(57) **ABSTRACT**

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

**1 Drawing Sheet**

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

Variety denomination: ‘PPP IZL 09’.

**BACKGROUND OF THE INVENTION**

The new cultivar ‘PPP IZL 09’ is a product of a cross between the male parent ‘GEDI TWO OMOL’ (U.S. Plant Pat. No. 14,382) and the female parent ‘GEM ONE SAP’ (U.S. Plant Pat. No. 13,731). 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 IZL 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 IZL 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 IZL 09.’ These characteristics in combination distinguish ‘PPP IZL 09’ as a new and distinct *Chrysanthemum* cultivar:

1. Small, bright orange, 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 IZL 09’ are similar to plants of the male parent variety, ‘GEDI TWO OMOL’ in most

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horticultural characteristics; however plants of the new cultivar ‘PPP IZL 09’ are shorter with a wider plant spread. Also, the new cultivar ‘PPP IZL 09’ has a larger inflorescence diameter and longer inflorescence longevity. Additionally, the ray florets of ‘PPP IZL 09’ are more red-orange than the male parent. Finally, ‘PPP IZL 09’ naturally blooms one week later than the male parent ‘GEDI TWO OMOL’.

Plants of the new cultivar ‘PPP IZL 09’ are similar to plants of the female parent variety, ‘GEM ONE SAP’ in most horticultural characteristics; however plants of the new cultivar ‘PPP IZL 09’ are shorter with a wider plant spread. Also, the new cultivar ‘PPP IZL 09’ has a smaller inflorescence diameter and a longer inflorescence longevity. Additionally, the ray florets of ‘PPP IZL 09’ are more orange-red than the female parent. Finally, ‘PPP IZL 09’ naturally blooms one to two weeks earlier than the female parent ‘GEDI ONE SAP’.

In comparison to the commercially available variety ‘GEDI TWO OMOL’ (U.S. Plant Pat. No. 14,382), ‘PPP IZL 09’ is shorter with a wider plant spread. Additionally, the new variety ‘PPP IZL 09’ has a smaller inflorescence diameter and brighter orange ray florets. Further, the new variety ‘PPP IZL 09’ blooms one week later than the comparable variety. Finally, ‘PPP IZL 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 IZL 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 IZL 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 IZL 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 19 cm.

Plant spread: Approximately 30 cm.

Growth rate: Moderate.

Branching characteristics: Free Branching.

Length of lateral branches: Approximately 14 cm.

Number of leaves per lateral branch: Approximately 29.

Age of plant described: Approximately 139 days.

#### FOLIAGE

Leaf:

*Arrangement*.—Alternate single.

*Average length*.—Approximately 5.7 cm.

*Average width*.—Approximately 4.2 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 0.9 cm.

*Color*.—Young foliage upper side: Near Yellow-Green 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 side: Near Green 138B. Venation color under side: Near Green 138C.

Petiole:

*Average length*.—Approximately 1.8 cm.

*Color*.—Near Green 138B.

*Diameter*.—Approximately 0.3 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 third week in September.

*Number of inflorescences per lateral branch*.—Approximately 8.

*Inflorescence diameter*.—Approximately 2.9 cm.

*Inflorescence depth*.—Approximately 1.2 cm.

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

*Persistence*.—Persistent.

5 Ray florets:

*Appearance*.—Matte.

*Texture*.—Smooth.

*Average number of ray florets per inflorescence*.—149.

*Shape*.—Oblanceolate.

*Aspect*.—Flat.

*Margin*.—Entire.

*Apex*.—Obtuse.

*Length*.—Approximately 0.6 cm.

*Width*.—Approximately 0.3 cm.

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

Upper surface at maturity: Near Orange-Red 34A.

Upper surface at fading: Near Greyed-Orange 164B.

Under surface at first opening: Near Red 46A. Under

surface at maturity: Near Yellow-Orange 20B with

shades of faded Orange-Red 34C. Under surface at

fading: Near Greyed-Orange 163B.

Disc florets:

*Appearance*.—Shiny.

*Texture*.—Smooth.

25 *Average number of florets per disc*.—Approximately 5.

*Shape*.—Cylindrical.

*Apex*.—Obtuse.

*Average length*.—Approximately 0.2 cm.

*Average width*.—Approximately 0.1 cm.

30 *Color*.—At first opening: Near Yellow-Green 154C. At maturity: Near Yellow 13A. At fading: Near Yellow 13A.

Peduncle:

35 *Length*.—At terminal end (shortest): Approximately 4 cm. At lateral end (longest): Approximately 6 cm.

*Angle to stem*.—Acute.

*Strength*.—Moderate.

*Color*.—Near Green 138B.

*Habit*.—Upright.

40 *Diameter*.—Approximately 0.2 cm.

*Surface texture*.—Lightly pubescent.

Inflorescence bud:

*Length*.—Approximately 0.5 cm.

*Diameter*.—Approximately 0.5 cm.

45 *Form*.—Globular.

*Color*.—Near Red 46A.

Involucral bracts (phyllaries):

*Appearance*.—Matte.

*Texture*.—Lightly pubescent.

50 *Number*.—Approximately 25.

*Shape*.—Lanceolate.

*Margin*.—Entire.

*Apex*.—Obtuse.

*Length*.—Approximately 0.5 cm.

55 *Width*.—Approximately 0.3 cm.

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

#### REPRODUCTIVE ORGANS

Ray florets:

*Number of pistils per floret*.—1.

*Stigma shape*.—2 branched.

*Stigma color*.—Near Yellow 9A.

65 *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 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., depending upon duration of cold and amount of moisture in the soil. With adequate water plants are hardy to a high temperature of 45° C.  
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 10  
 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  
 15 named 'PPP IZL 09' as herein illustrated and described.

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