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(54) **CHRYSANTHEMUM PLANT NAMED**  
**'CIDZ0046'**

(50) Latin Name: *Chrysanthemum*×*morifolium*  
Varietal Denomination: **CIDZ0046**

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patent is extended or adjusted under 35  
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(52) **U.S. Cl.**  
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(58) **Field of Classification Search**  
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See application file for complete search history.

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(57) **ABSTRACT**

A new *Chrysanthemum* plant named 'CIDZ0046' particu-  
larly distinguished by single/daisy type flower form with  
large red and yellow bi-colored ray florets, uniform habit with  
strong stems, medium yellow-green foliage color, and a 7  
week blackcloth flowering response time.

**1 Drawing Sheet**

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Latin name of the genus and species of the plant claimed:  
*Chrysanthemum*×*morifolium*.  
Varietal denomination: 'CIDZ0046'.

**BACKGROUND OF THE NEW PLANT**

The present invention comprises a new *Chrysanthemum*,  
botanically known as *Chrysanthemum*×*morifolium*, and  
hereinafter referred to by the variety name 'CIDZ0046'.

'CIDZ0046' is a product of a planned breeding program.  
The new cultivar has single/daisy type flower form with large  
red and yellow bi-colored ray florets, uniform habit with  
strong stems, medium yellow-green foliage color, and a 7  
week blackcloth flowering response time.

'CIDZ0046' originates as a naturally occurring whole  
plant mutation of 'Yoapple Valley', U.S. Plant Pat. No.  
21,420. 'CIDZ0046' was discovered and selected by the  
inventor as a single flowering plant within a large population  
of the parent cultivar, grown in pots outdoors under a shade  
structure in Fort Myers, Fla. in March 2009. The parent cul-  
tivar 'Yoapple Valley' has slightly larger, more red-purple,  
and white bi-colored inflorescences.

The first act of asexual reproduction of 'CIDZ0046' was  
accomplished when vegetative cuttings were propagated  
from the initial selection in June 2009 in a greenhouse in Fort  
Myers, Fla.

**BRIEF SUMMARY OF INVENTION**

Horticultural examination of plants grown from cuttings of  
the plant initiated in June 2009, and continuing thereafter, has  
demonstrated that the combination of characteristics as  
herein disclosed for 'CIDZ0046' are firmly fixed and are  
retained through successive generations of asexual reproduc-  
tion.

'CIDZ0046' has not been observed under all possible envi-  
ronmental conditions. The phenotype may vary significantly  
with variations in environment such as temperature, light  
intensity, and day length.

A Plant Breeder's Right for this cultivar was applied for in  
Canada on Jun. 29, 2012, (12-7650). 'CIDZ0046' has not  
been made publicly available more than one year prior to the  
filing of this application.

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The following traits have been repeatedly observed and are  
determined to be basic characteristics of the new variety. The  
combination of these characteristics distinguishes this *Chry-*  
*santhemum* as a new and distinct variety.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying photographic drawings show typical  
inflorescence and foliage characteristics of 'CIDZ0046' with  
colors being as true as possible with illustrations of this type.  
The photographic drawing in FIG. 1 shows 4 flowering plants  
of the new variety growing together in 1 container, and in FIG.  
2 a close-up of a more mature inflorescence.

**DETAILED BOTANICAL DESCRIPTION**

The plant descriptions, measurements and aforementioned  
FIG. 1 photograph were taken in Gilroy, Calif. in early Octo-  
ber 2012 under natural light. These plants were grown 4  
plants in a 6 inch container in a greenhouse in Nipomo, Calif.  
These plants used in the photograph and descriptions were  
about 10-12 weeks old. The plant for the FIG. 2 photograph  
was taken in Nipomo in Mid-October and was about 13-14  
weeks old.

Color references are made to The Royal Horticultural Soci-  
ety Colour Chart (R.H.S.) 2001.

**TABLE 1**

**DIFFERENCES BETWEEN THE NEW VARIETY 'CIDZ0046'**  
**AND A MOST SIMILAR VARIETY**

	'CIDZ0046'	'Yosun City' (U.S. Plant Pat. No. 17,460)
Inflorescence size:	Much larger	Smaller
Flowering response:	Faster	Slower
Growth habit:	Shorter, more compact	Taller, less compact



## Plant:

*Form, growth and habit.*—Herbaceous, pot-type, stems upright and freely branching, strong and moderately vigorous growth habit.

*Plant height.*—20-23.0 cm.

*Plant height (inflorescence included).*—25-27.0 cm.

*Plant width.*—20.0 cm.

## Roots:

*Number of days to initiate roots.*—About 4 days at about 22 degrees C.

*Number of days to produce a rooted cutting.*—4-6 days at 22 degrees C.

*Type.*—Fine, fibrous, free branching.

*Color.*—RHS N155B but whiter.

## Foliage:

*Arrangement.*—Alternate.

*Immature, leaf color, upper surface.*—Closest to RHS 147A.

*Immature, leaf color, lower surface.*—RHS 147B with mottled spots of RHS 147C.

*Mature, leaf color, upper surface.*—Closest to but lighter than RHS 147A.

*Mature, leaf color, lower surface.*—RHS 147B but little more green with some spots of RHS 147C.

*Length.*—8.5-11.0 cm.

*Width.*—6.3-6.6 cm.

*Shape.*—Ovate.

*Base shape.*—Attenuate.

*Apex shape.*—Mucronulate.

*Margin.*—Palmately lobed; deeply incised, slightly serrate.

*Texture, upper surface.*—Bi-fid T-shaped hairs.

*Texture, lower surface.*—Bi-fid T-shaped hairs.

*Color of veins, upper surface.*—RHS 144B.

*Color of veins, lower surface.*—RHS 144B.

*Pattern of veining.*—Palmate.

*Petiole color.*—RHS 144B.

*Length.*—1.6-2.0 cm.

*Diameter.*—0.3 cm.

*Texture.*—Bi-fid T-shaped hairs.

## Stem:

*Quantity of main branches per plant.*—3-4.

*Color of stem.*—RHS 138A but appears lighter due to hairs.

*Length of stem.*—17-21.0 cm.

*Diameter.*—0.4-0.5 cm.

*Length of internodes.*—0.5-1.5 cm.

*Texture of stem.*—Bi-fid T-shaped hairs.

*Color of peduncle.*—RHS 138A but appears lighter due to hairs.

*Length of peduncle.*—5.5-6.5 cm.

*Peduncle diameter.*—0.3 cm.

*Texture.*—Bi-fid T-shaped hairs.

## Inflorescence:

*Type.*—Compositae, solitary, single/daisy-type inflorescences borne terminally above foliage, ray florets arranged acropetally on a capitulum.

*Quantity of short days to flowering (response time).*—7 weeks.

*Natural season flowering.*—Not determined on this variety.

*Quantity of inflorescences per plant.*—9-13 plus some had a few small buds.

*Lastingness of individual blooms on the plant.*—About 4-5 weeks.

*Fragrance.*—Slightly spicy.

## Bud (just when opening/showing color):

*Color.*—RHS 155D to RHS 4D with a mottled hue of RHS 175A in the center of petal.

*Length.*—2.5 cm.

*Width.*—1.5 cm.

*Shape.*—Oblate.

## Immature inflorescence:

*Diameter.*—6-6.5 cm.

*Color of ray florets, upper surface.*—RHS 4C to RHS 155D heavily overlaid with RHS 53A on margins and down the middle of the ray floret and more solid at the apex.

*Color of ray florets, lower surface.*—RHS 2C overlaid with closest to RHS 53C at margins and lighter shades down the middle of the ray floret.

## Mature inflorescence:

*Diameter.*—10-11.7 cm.

*Depth.*—2-3.0 cm.

*Total diameter of disc.*—1.9-2.1 cm.

*Receptacle color.*—RHS 145B.

*Receptacle height.*—0.5-0.6 cm.

*Receptacle diameter.*—0.8-0.9 cm.

## Ray florets:

*Average quantity of florets.*—24-33 in 2 whorls.

*Color of florets, upper surface.*—RHS 4D to RHS 155D basally becoming lighter towards the middle, overlaid mottled and slightly striated with RHS 53A becoming closest to RHS 53C more heavily in the center and margins, and more solid color toward the apex.

*Color of florets, lower surface.*—RHS 2C overlaid with closest to RHS 53D at margins and lighter shades down the middle of the ray floret.

*Length.*—4.5-5.5 cm.

*Width.*—1.2-1.4 cm.

*Shape.*—Broadly elliptical.

*Apex shape.*—Obtuse.

*Base shape.*—Cuneate.

*Margin.*—Entire.

*Texture, upper surface.*—Papillose.

*Texture, lower surface.*—Papillose.

## Disc florets:

*Average quantity of florets.*—About 300.

*Color of florets.*—RHS 155C basally with RHS 3A towards the apex with RHS 145A on the very top of apex.

*Length.*—0.5 cm.

*Width.*—0.1 cm.

*Shape.*—Tubular, elongated.

*Apex shape.*—Acute, 5 pointed.

*Texture, inner surface.*—Glabrous.

*Texture, outer surface.*—Glabrous.

## Phyllaries:

*Quantity.*—About 30.

*Color, upper surface.*—Closest to RHS 138A.

*Color, lower surface.*—Closest to RHS 138A.

*Length.*—0.6-0.8 cm.

*Width.*—0.15-0.30 cm.

*Shape.*—Lanceolate.

*Apex shape.*—Acute.

*Base.*—Fused.

*Margins.*—Entire, some papery.

*Texture, upper surface.*—Glabrous.

*Texture, lower surface.*—Bi-fid T-shaped hairs.

Reproductive organs:

*Pistil*.—1, found on both types of florets.  
*Length*.—0.6-0.7 cm.  
*Style color*.—RHS 1C.  
*Style length*.—0.55-0.6 cm.  
*Stigma color*.—RHS 6A.  
*Stigma shape*.—Bi-parted.  
*Ovary*.—Not developed enough to describe and measure.  
*Stamens*.—4, found on only on the disc florets.  
*Color of filaments*.—RHS 1C.  
*Length filaments*.—0.2 cm.

*Anther color*.—RHS 16B.  
*Anther length*.—0.2 cm.  
*Anther shape*.—Oblong.  
*Pollen amount*.—None observed to date.  
*Fertility/seed set*.—Has not been observed to date.  
*Disease/pest resistance*.—Has not been observed to date.

What is claimed is:

1. A new and distinct variety of *Chrysanthemum* plant  
 10 named 'CIDZ0046' substantially as illustrated and described herein.

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FIGURE 1

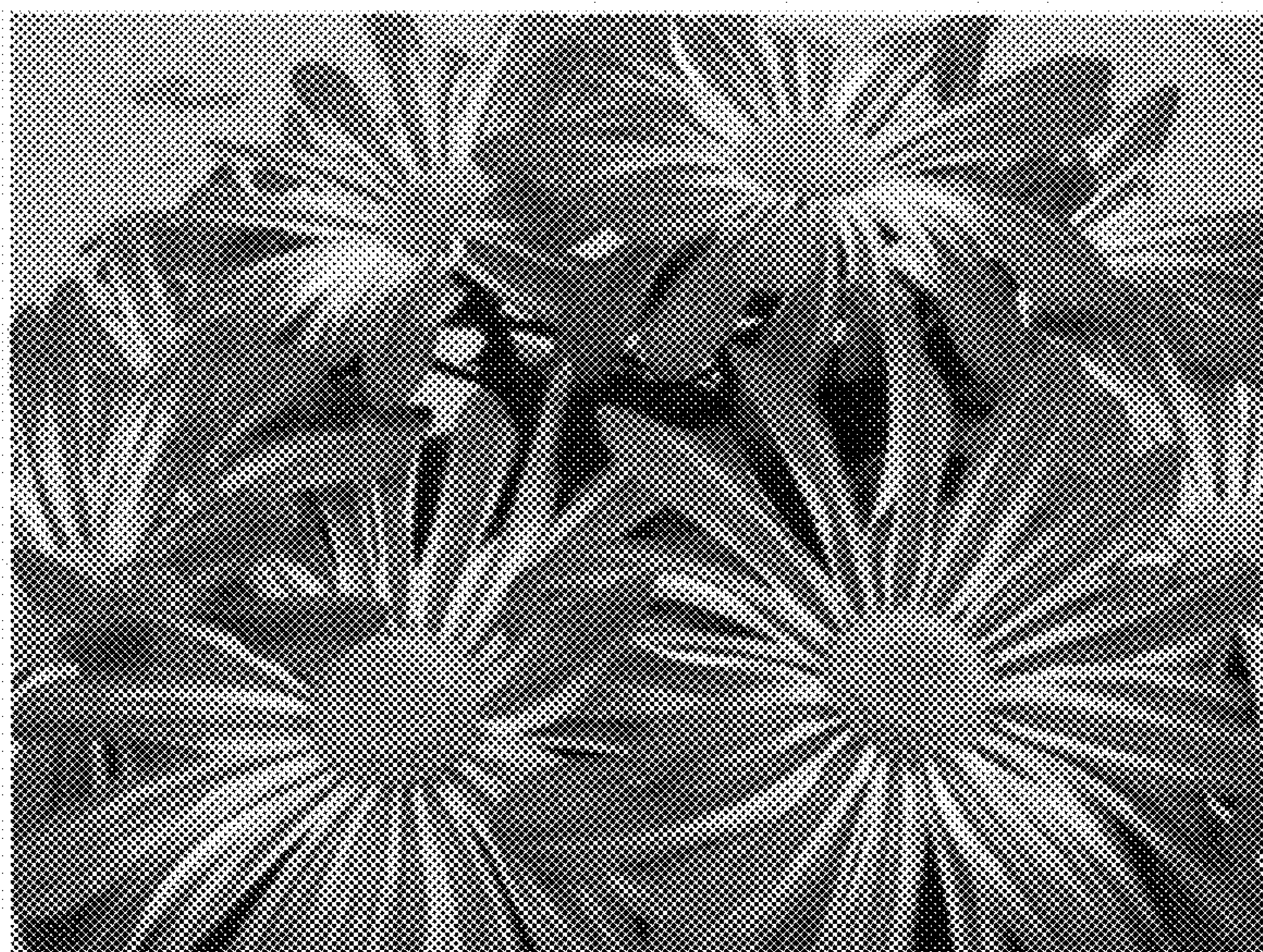


FIGURE 2