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

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(54) **CHRYSANTHEMUM PLANT NAMED**  
**'CIFZ0070'**

(50) Latin Name: *Chrysanthemum x morifolium*  
Varietal Denomination: **CIFZ0070**

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(\* ) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
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(51) **Int. Cl.**  
**A01H 5/02** (2018.01)

(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 garden type *Chrysanthemum* plant named  
'CIFZ0070' particularly distinguished by the medium size  
plant with a medium size plant with round mound plant  
habit, a small sized (1.5 inch) flower, two tone decorative  
flower color and a natural season response in late September  
to early October.

**1 Drawing Sheet**

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Latin name of the genus and species of the plant claimed:  
*Chrysanthemum x morifolium*.  
Varietal denomination: 'CIFZ0070'.

**BACKGROUND OF THE NEW PLANT**

The present invention comprises a new *Chrysanthemum*,  
botanically known as *Chrysanthemum x morifolium*, and  
hereinafter referred to by the variety name 'CIFZ0070'.

'CIFZ0070' is a product of a planned breeding program.  
The new cultivar has medium size plant with round mound  
plant habit, a small sized (1.5 inch) flower, two tone deco-  
rative flower color and a natural season response in late  
September to early October.

'CIFZ0070' originated from a Stock x-rayed at 1750 RAD  
in December 2015 in Gilroy, Calif. and 'CIFZ0070' was  
selected from the resulting population on Mar. 8, 2016 in  
Gilroy, Calif.

The female parent was the variety 'CIFZ0031', U.S. Plant  
Pat. No. 23,924.

When compared to the female parent, 'CIFZ0070' is/has:

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a similar flower type with similar flower size but more 2-tone color  
compared to 'CIFZ0031'.  
similar in blackcloth response and half a week faster natural season  
response than 'CIFZ0031'  
a similar plant habit and a bit bigger overall plant size than 'CIFZ0031'.

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As 'CIFZ0070' is a mutant plant, there is no male parent.  
The first act of asexual reproduction of 'CIFZ0070' was  
accomplished when vegetative cuttings were propagated  
from the initial selection in April 2016 in Gilroy, Calif.

**BRIEF SUMMARY OF INVENTION**

Horticultural examination of plants grown from cuttings  
of the plant initiated in April 2016 and continuing thereafter,  
has demonstrated that the combination of characteristics as

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herein disclosed for 'CIFZ0070' are firmly fixed and are  
retained through successive generations of asexual repro-  
duction.

'CIFZ0070' has not been observed under all possible  
environmental conditions. The phenotype may vary signifi-  
cantly with variations in environment such as temperature,  
light intensity and day length.

A Plant Breeder's Right for this cultivar has not yet been  
applied for. 'CIFZ0070' has not been made publicly avail-  
able prior to the effective filing date of this application,  
notwithstanding any disclosure that may have been made  
less than one year prior to the effective filing date of this  
application by the inventor or another who obtained  
'CIFZ0070' directly from the inventor.

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  
*Chrysanthemum* as a new and distinct variety.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying photographic drawings show typical  
flower and foliage characteristics of 'CIFZ0070' with colors  
being as true as possible with an illustration of this type. The  
photographic drawings show in FIG. 1 a close view of  
flower of the new variety and in FIG. 2 a flowering plant  
from an outdoor trial.

The aforementioned photographs: FIG. 1, as well as FIG.  
2, were taken in August 2018 both showing a plant from the  
same blackcloth indoor trial in Gilroy, Calif.

These plants were about 10 weeks of age. One rooted  
cutting per pot had been planted in a one gallon pot, not  
pinched in week 24, and black clothed from week 25. Plants  
started flowering in August.

**DETAILED BOTANICAL DESCRIPTION**

The measurements were taken in Gilroy, Calif. in August  
2018 on the plants from the aforementioned trial.

Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.) 2015.

TABLE 1

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0070' AND TWO MOST SIMILAR VARIETIES:		
	'CIFZ0070'	'Yoashely', U.S. Plant Pat. No. 18,916
Flowering response (blackcloth):	Similar	Similar
Flowering response (natural):	Similar	Similar
Flower color:	Lighter flower colour, more 2-tone effect	Darker flower color, less 2-tone effect
Plant size:	Larger	Smaller
Plant habit:	Wider	More upright
DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0070' AND TWO MOST SIMILAR VARIETIES:		
	'CIFZ0070'	'Conaco Gold', Unpatented
Flowering response (blackcloth):	1 week faster	1 week slower
Flowering response (natural):	1 week slower	1 week faster
Flower longevity:	Very good	Not very good
Flower color:	More orange/less yellow	Less orange/more yellow
Flower size:	Smaller	Bigger
Plant size:	Bigger	Smaller

## Plant:

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

*Plant height (above soil).*—10-18 cm.

*Plant height (inflorescence included).*—19-29 cm.

*Plant width.*—31-34 cm.

## Roots:

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

*Number of days to produce a rooted cutting.*—14-16 days at 22° C.

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

*Color.*—RHS N155B but whiter.

## Foliage:

*Arrangement.*—Alternate.

*Immature leaf, color upper surface.*—RHS 139A.

*Immature leaf, color lower surface.*—RHS 137B.

*Mature leaf, color, upper surface.*—RHS 137A.

*Mature leaf, color lower surface.*—RHS NN137C.

*Length.*—6.1-6.4 cm.

*Width.*—5.0-5.1 cm.

*Shape.*—Ovate, with distinct lobes.

*Base shape.*—Attenuate.

*Apex shape.*—Mucronate.

*Margin.*—5-lobed (palmate), edge dentate.

*Texture, upper surface.*—Bifid hairs.

*Texture, lower surface.*—Bifid hairs.

*Color of veins, upper surface.*—RHS 138B.

*Color of veins, lower surface.*—RHS 138A.

*Pattern of veining.*—Palmate.

*Petiole color.*—RHS 138A.

*Petiole length.*—1.4-1.7 cm.

*Diameter.*—0.4 cm.

*Texture.*—Covered with bifid hairs.

## Stem:

*Quantity of main branches per plant.*—6-8.

*Color of stem.*—RHS 138A.

*Length of stem.*—6-8 cm.

*Diameter.*—0.5 cm.

*Length of internodes.*—1.0-2.5 cm.

*Texture.*—Bifid hairs.

*Color of peduncle.*—RHS 138A.

*Length of peduncle.*—7.1-8.2 cm.

*Peduncle diameter.*—0.3 cm.

*Texture.*—Bifid hairs.

## Inflorescence:

*Type.*—Compositae, solitary, decorative type inflorescences borne terminally above foliage, ligulate ray florets florets arranged on a capitulum.

*Quantity of short days to flowering (response time).*—Approximately 5.5 weeks.

*Natural season flowering.*—Late September to early October.

*Quantity of inflorescences per plant.*—110-130.

*Lastingness of individual blooms on the plant.*—More than six weeks from first color.

*Fragrance.*—Slightly spicy.

## 25 Bud (when showing color):

*Color.*—RHS 26A.

*Length.*—0.8 cm.

*Width.*—1.5 cm.

*Shape.*—Oblate.

## 30 Immature inflorescence:

*Diameter.*—2.5 cm.

*Color of ray florets, upper surface.*—RHS 22A.

*Color of ray florets, lower surface.*—RHS 15B.

## Mature inflorescence:

*Diameter.*—4.4 cm.

*Depth.*—2.0 cm.

*Total diameter of disc.*—No disc.

*Receptacle color.*—RHS 139B.

*Receptacle height.*—0.6 cm.

*Receptacle diameter.*—0.3 cm.

## Ray florets:

*Average quantity of florets.*—Between 210 and 220 in many whorls.

*Color of florets, upper surface (abaxial).*—RHS 13A.

*Color inner surface (adaxial).*—RHS 13C.

*Length.*—1.5-1.6 cm.

*Width/diameter.*—0.3 cm.

*Shape.*—Elliptical.

*Apex shape.*—Most obtuse and dentate.

*Base shape.*—Tube.

*Margin.*—Entire, small incisions may occur at the tip.

*Texture, upper surface.*—Papillate.

*Lower surface.*—Papillate.

## Disc florets: None present.

## 55 Phyllaries:

*Quantity.*—40-50.

*Color, upper surface.*—RHS 137A.

*Color, lower surface.*—RHS 137A.

*Length.*—0.9-1.0 cm.

*Width.*—0.3 cm.

*Shape.*—Lanceolate.

*Apex shape.*—Acute.

*Base.*—Fused.

*Margins.*—Entire.

*Texture, upper surface.*—Glabrous.

*Texture, lower surface.*—Canescent.

Reproductive organs:

*Pistil*.—One.  
*Length*.—0.3-0.5 cm.  
*Style color*.—RHS 150B.  
*Style length*.—0.2-0.3 cm.  
*Stigma color*.—RHS 13B.  
*Stigma shape*.—Bi-parted.  
*Ovary color*.—RHS 145B.  
*Ovary length*.—0.15 cm.  
*Ovary width*.—0.1 cm.

Androecium:

*Stamens*.—None (are normally present in disc florets, these are not developed).  
*Fertility/seed set*.—Has not been determined to date.  
*Disease/pest resistance*.—Has not been determined to date.

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What is claimed is:

1. A new and distinct variety of *Chrysanthemum* plant named 'CIFZ0070' substantially as illustrated and described herein.

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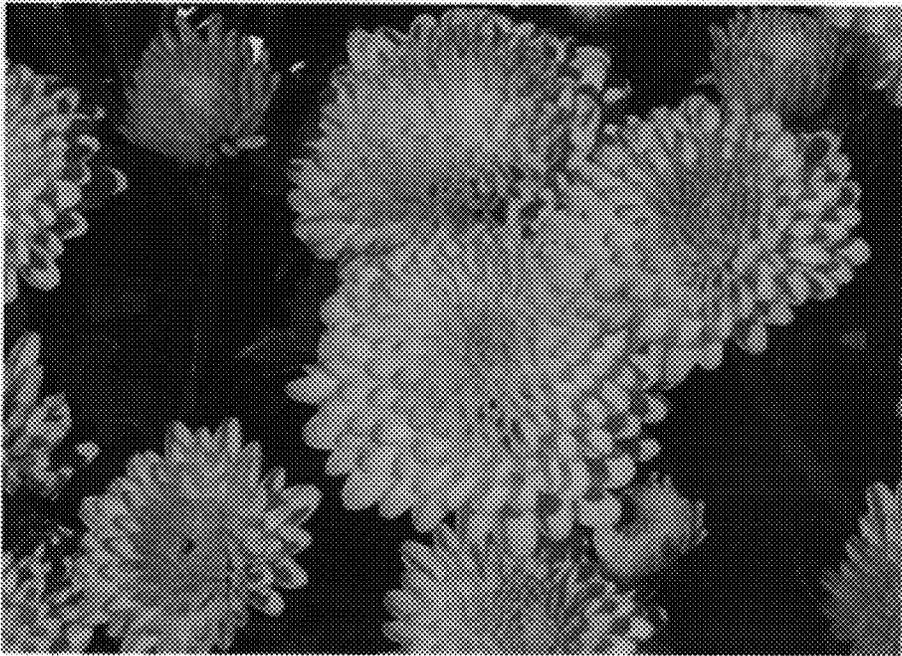


FIG. 1

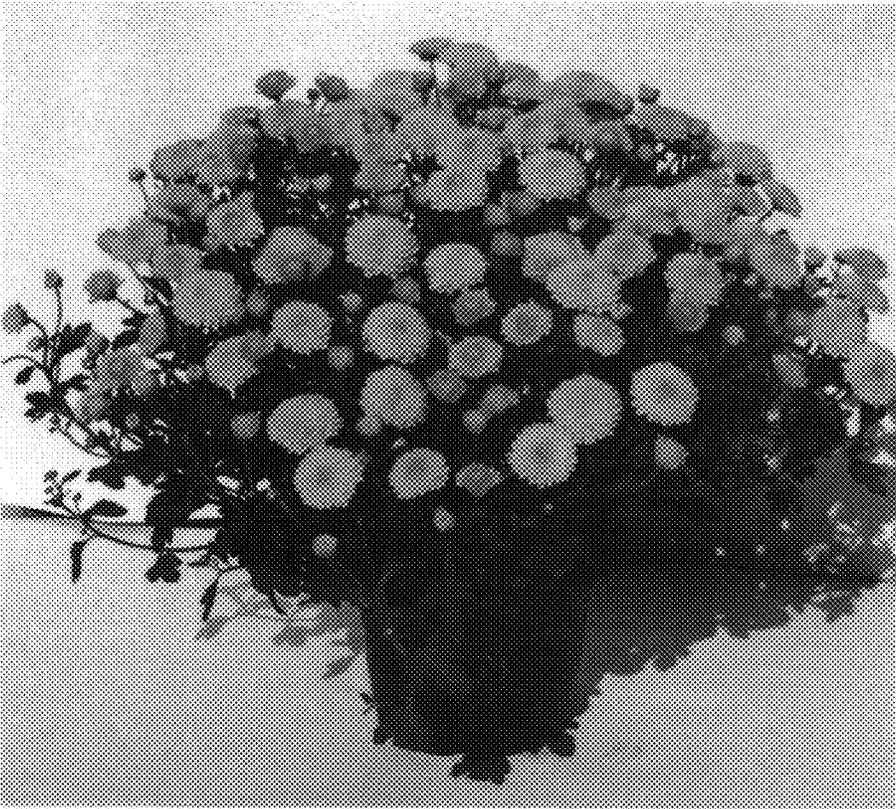


FIG. 2