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**Smith**

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(54) **CHRYSANTHEMUM** PLANT NAMED  
**'CIFZ0053'**

(50) Latin Name: *Chrysanthemum x morifolium*  
Varietal Denomination: **CIFZ0053**

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patent is extended or adjusted under 35  
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See application file for complete search history.

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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named  
'CIFZ0053' particularly distinguished by the small size  
red-bronze decorative flower, large size plant with round  
sphere plant habit and a natural season response in mid-late  
October.

**1 Drawing Sheet**

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Latin name of the genus and species of the plant claimed:  
*Chrysanthemum x morifolium*.  
Varietal denomination: 'CIFZ0053'.

**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 'CIFZ0053'.

'CIFZ0053' is a product of a planned breeding program.  
The new cultivar has small size red-bronze decorative  
flower, large size plant with round sphere plant habit and a  
natural season response in mid-late October.

'CIFZ0053' originated from a mutation: Stock x-rayed at  
1750 RAD in October of 2013. Single cutting sport from the  
stock.

The female parent was the unnamed lavender/pink col-  
ored seedling from own breeding '11-M262'.

When compared to the female parent, 'CIFZ0053' has:

- 1) Similar flower type and size but red-bronze not dark  
lavender/pink color like the sport parent
  - 2) Blackcloth and natural season response is a day or two  
slower than the sport parent
  - 3) Similar plant habit and slightly larger plant size than  
the sport parent
- No male parent.

The first act of asexual reproduction of 'CIFZ0053' was  
accomplished when vegetative stem tip cuttings were propa-  
gated from the initial selection. This initial selection took  
place on Apr. 16, 2014 in Gilroy, Calif.

**BRIEF SUMMARY OF INVENTION**

Horticultural examination of plants grown from cuttings  
of the plant initiated in May 2014 in Gilroy, Calif., and  
continuing thereafter, has demonstrated that the combination

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of characteristics as herein disclosed for 'CIFZ0053' are  
firmly fixed and are retained through successive generations  
of asexual reproduction.

'CIFZ0053' 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 was applied for  
in the European Union on Nov. 22, 2016, No. 2016/2883.  
'CIFZ0053' has not been made publicly available 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 'CIFZ0053' 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 'CIFZ0053' 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 October 2016 both showing a plant from the  
same natural outdoor trial in Gilroy, Calif. These plants were  
about 18 weeks of age. One rooted cutting per pot had been  
planted in a one gallon pot, not pinched in week 22. Plants  
started flowering end of September.

**DETAILED BOTANICAL DESCRIPTION**

The measurements were taken in Gilroy, Calif. in October  
2016 on the plants from the aforementioned trial.

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

TABLE 1

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0053' AND 'Brunette Yobarbie':		
	'CIFZ0053'	'Brunette Yobarbie', U.S. Plant Pat. No. 21,322
Flowering response (blackcloth):	1 week slower	1 week faster
Flowering response (natural):	0.5 week slower	0.5 week faster
Flower size:	Bit smaller flower	Bit bigger flower
Plant habit or size:	Larger plant with more spread and therefore rounder habit especially in blackcloth compared to 'Brunette Yobarbie'	Smaller plant with more oval habit especially in blackcloth compared to 'CIFZ0053'

TABLE 2

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0053' 'Staviski Red':		
	'CIFZ0053'	'Staviski Red', Not patented
Flowering response (blackcloth):	1 week slower	1 week faster
Flowering response (natural):	Similar	Similar
Frost tolerance	Frost tolerant	Not frost tolerant
Flower shape:	Less disc florets	More disc florets
Plant habit or size:	Larger plant size	Smaller plant size

## 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).*—16-20 cm.

*Plant height (inflorescence included).*—19-23 cm.

*Plant width.*—42-46 cm.

## Roots:

*Number of days to initiate roots.*—About 4-6 days at about 22 degrees C.

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

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

*Color.*—RHS N155B but whiter.

## Foliage:

*Arrangement.*—Alternate.

*Immature leaf, color upper surface.*—Between RHS 136A and RHS 136B.

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

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

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

*Length.*—3.5-3.9 cm.

*Width.*—2.0-2.7 cm.

*Shape.*—Ovate.

*Base shape.*—Attenuate.

*Apex shape.*—Acute.

*Margin.*—3 main lobes, irregularly serrulate.

*Texture, upper surface.*—Bifid hairs.

*Texture, lower surface.*—Bifid hairs.

*Color of veins, upper surface.*—RHS 139B.

*Color of veins, lower surface.*—RHS 137D.

*Pattern of veining.*—Palmate.

*Petiole color.*—RHS 139C.

*Petiole length.*—1.0-1.6 cm.

*Diameter.*—0.1-0.2 cm.

*Texture.*—Covered with bifid hairs.

## Stem:

*Quantity of main branches per plant.*—13-15.

*Color of stem.*—RHS 138B.

*Length of stem.*—10.5-15 cm.

*Diameter.*—0.3-0.6 cm.

*Length of internodes.*—1.0-2.0 cm.

*Texture.*—Bifid hairs.

*Color of peduncle.*—RHS 138A.

*Length of peduncle.*—8.5-13 cm.

*Peduncle diameter.*—0.15 cm.

*Texture.*—Covered with bifid hairs.

## Inflorescence:

*Type.*—Compositae, solitary, decorative-type inflorescences borne terminally above foliage.

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

*Natural season flowering.*—Mid-late October.

*Quantity of inflorescences per plant.*—200-250 buds.

*Lastingness of individual blooms on the plant.*—About six weeks from first color, depending on conditions.

*Fragrance.*—Slightly spicy.

## Bud (when showing color):

*Color.*—Between RHS 59A and RHS 59B.

*Length.*—1.1-1.3 cm.

*Width.*—0.8-1.0 cm.

*Shape.*—Oblate (almost globular).

## Immature inflorescence:

*Diameter.*—1.8-2.3 cm.

*Color of ray florets, upper surface.*—Closest to RHS 181A, RHS 14C at base.

*Color of ray florets, lower surface.*—RHS 181A, overlain with RHS 155B; RHS 14C at base.

## Mature inflorescence:

*Diameter.*—3.0-3.5 cm.

*Depth.*—1.5-1.8 cm.

*Total diameter of disc.*—None Present.

*Receptacle color.*—RHS 145B.

*Receptacle height.*—0.4 cm.

*Receptacle diameter.*—0.6-1.1 cm.

## Ray florets:

*Average quantity of florets.*—Between 100 and 130 in many whorls.

*Color of florets, upper surface.*—Between RHS 181A and RHS 181B, RHS 10A at base.

*Color inner surface.*—RHS 181A overlain with RHS 155B, RHS 10A at base.

*Length.*—0.8-1.2 cm.

*Width/diameter.*—0.35-0.4.

*Shape.*—Oblong to elliptical.

*Apex shape.*—Most often emarginated or praemorse.

*Base shape.*—Attenuate.

*Margin.*—Entire.

*Texture, upper surface.*—Smooth.

*Lower surface.*—Smooth.

## Disc florets: None present.

## Phyllaries:

*Quantity.*—70.

*Color, upper surface.*—RHS 136A to RHS 136B.

*Color, lower surface.*—RHS 137B.

*Length.*—0.7-0.8 cm.

*Width.*—0.15-0.2 cm.  
*Shape.*—Lanceolate.  
*Apex shape.*—Acute.  
*Base.*—Fused.  
*Margins.*—Entire, some with papery edges.  
*Texture, upper surface.*—Glabrous.  
*Texture, lower surface.*—Bifid hairs.  
 Reproductive organs:  
*Pistil.*—One.  
*Length.*—0.5 cm.  
*Style color.*—RHS 1C.  
*Style length.*—0.35-0.4 cm.  
*Stigma color.*—RHS 7D.  
*Stigma shape.*—Bi-lobed.  
*Ovary color.*—RHS 145C.

*Ovary length.*—0.15 cm.  
*Ovary width.*—0.1 cm.  
 Androecium:  
*Stamens.*—None, as they are usually present in disc  
 florets only, which are not developed.  
*Fertility/seed set.*—Has not been determined to date.  
*Disease/pest resistance.*—Has not been determined to  
 date.  
*Cold hardiness.*—Frost Tolerant.  
 10 What is claimed is:  
 1. A new and distinct variety of *Chrysanthemum* plant  
 named 'CIFZ0053' substantially as illustrated and described  
 herein.  
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FIGURE 1



FIGURE 2