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

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(54) **CHRYSANTHEMUM PLANT NAMED**  
**'CIFZ0054'**

(50) Latin Name: *Chrysanthemum x morifolium*  
Varietal Denomination: **CIFZ0054**

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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 garden type *Chrysanthemum* plant named  
'CIFZ0054' particularly distinguished by small size 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: 'CIFZ0054'.

**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 'CIFZ0054'.

'CIFZ0054' is a product of a planned breeding program.  
The new cultivar has small size bronze decorative flower,  
large size plant with round sphere plant habit and a natural  
season response in mid-late October.

'CIFZ0054' 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 'CIFZ0054' has:

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

The first act of asexual reproduction of 'CIFZ0054' was  
accomplished when vegetative cuttings were propagated  
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  
of characteristics as herein disclosed for 'CIFZ0054' are  
firmly fixed and are retained through successive generations  
of asexual reproduction.

'CIFZ0054' has not been observed under all possible  
environmental conditions. The phenotype may vary signifi-

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cantly with variations in environment such as temperature,  
light intensity and day length.

'CIFZ0054' 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 'CIFZ0054' 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 'CIFZ0054' 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 'CIFZ0054'<br>AND TWO MOST SIMILAR VARIETIES: |   |   |
|---|---|---|
|   | 'CIFZ0054'  | 'Brunette Yobarbie'<br>(U.S. Plant<br>Pat. No. 21,322)  |
| Flowering response<br>(blackcloth):   | 5-7 days slower   | 5-7 days faster   |
| Flowering response<br>(natural):  | 2 days slower   | 2 days faster   |
| Flower color:   | Lighter color   | Darker color  |
| Flower size:  | Bit smaller flower  | Bit bigger flower   |
| Plant habit or size:  | Larger plant with more<br>spread and therefore<br>rounder habit especially<br>in blackcloth compared to<br>'CIFZ0054' | Larger plant with more<br>oval habit especially in<br>blackcloth compared to<br>'Brunette Yobarbie' |

TABLE 2

|                                     | 'CIFZ0054'          | 'Staviski Orange' (U.S. Plant<br>Pat. No. 21,804) |
|-------------------------------------|---------------------|---|
| Flowering response<br>(blackcloth): | 5-7 days slower     | 5-7 days faster                                   |
| Flowering response<br>(natural):    | Similar             | Similar   |
| Frost tolerance:                    | Frost tolerant      | Not frost tolerant                                |
| Flower color:                       | Deeper color        | Lighter color                                     |
| Flower shape:                       | Disc florets absent | 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).*—22-29 cm.

*Plant height (inflorescence included).*—25-31 cm.

*Plant width.*—43-46 cm.

## Roots:

*Number of days to initiate roots.*—About 4 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.*—RHS 137A.

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

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

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

*Length.*—3.8-4.4 cm.

*Width.*—3.4-4.0 cm.

*Shape.*—Ovate.

*Base shape.*—Attenuate.

*Apex shape.*—Acute.

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

*Texture, upper surface.*—Bifid hairs.

*Texture, lower surface.*—Bifid hairs.

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

*Color of veins, lower surface.*—RHS 139C.

*Pattern of veining.*—Palmate.

*Petiole color.*—RHS 137D.

*Petiole length.*—1.4-1.6 cm.

*Diameter.*—0.15-0.2 cm.

*Texture.*—Covered with bifid hairs.

## Stem:

*Quantity of main branches per plant.*—10-12.

*Color of stem.*—RHS 138B.

*Length of stem.*—11.5-15 cm.

*Diameter.*—0.3-0.4 cm.

*Length of internodes.*—0.7-2.0 cm.

*Texture.*—Bifid hairs.

*Color of peduncle.*—RHS 138B.

*Length of peduncle.*—10.5-12 cm.

*Peduncle diameter.*—0.15 cm.

*Texture.*—Bifid hairs.

## Inflorescence:

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

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

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

*Quantity of inflorescences per plant.*—300-350, with small buds developing.

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

*Fragrance.*—Slightly spicy.

## Bud (when showing color):

*Color.*—Closest to RHS 170C with RHS 16D on tips.

*Length.*—0.8-1.0 cm.

*Width.*—0.7-0.8 cm.

*Shape.*—Oblate.

## Immature inflorescence:

*Diameter.*—1.7-2.4 cm.

*Color of ray florets, upper surface.*—RHS 7B overlain with spots of RHS 171B.

*Color of ray florets, lower surface.*—RHS 171B overlain with RHS 9C.

## Mature inflorescence:

*Diameter.*—3.0-3.5 cm.

*Depth.*—1.9-2.1 cm.

*Total diameter of disc.*—Very small; not visible as covered by the many rays.

*Receptacle color.*—RHS 145B.

*Receptacle height.*—0.35 cm.

*Receptacle diameter.*—0.4 cm.

## Ray florets:

*Average quantity of florets.*—Between 150 and 175 in several whorls.

*Color of florets, upper surface (abaxial).*—RHS 7C with spots of RHS 171B.

*Color inner surface (adaxial).*—RHS 171B overlain with RHS 9D.

*Length.*—1.1-1.3 cm.

*Width/diameter.*—0.3-0.4 cm.

*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.*—Approximately 60.

*Color, upper surface.*—RHS 137A.

*Color, lower surface.*—RHS 137B.

*Length.*—0.6-0.7 cm.

*Width.*—0.15-2.0.

*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.*—0.3-0.6 cm.  
*Style color.*—RHS 1C.  
*Style length.*—0.35-0.4 cm.  
*Stigma color.*—RHS 7D.  
*Stigma shape.*—Bi-parted.  
*Ovary color.*—RHS 145C.

*Ovary length.*—0.15 cm.  
*Ovary width.*—0.1 cm.  
 Androecium:  
*Stamens.*—None, as they are usually present in disc  
 5        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.  
 What is claimed is:  
 10    1. A new and distinct variety of *Chrysanthemum* plant  
        named 'CIFZ0054' substantially as illustrated and described  
        herein.

\* \* \* \* \*



FIGURE 1

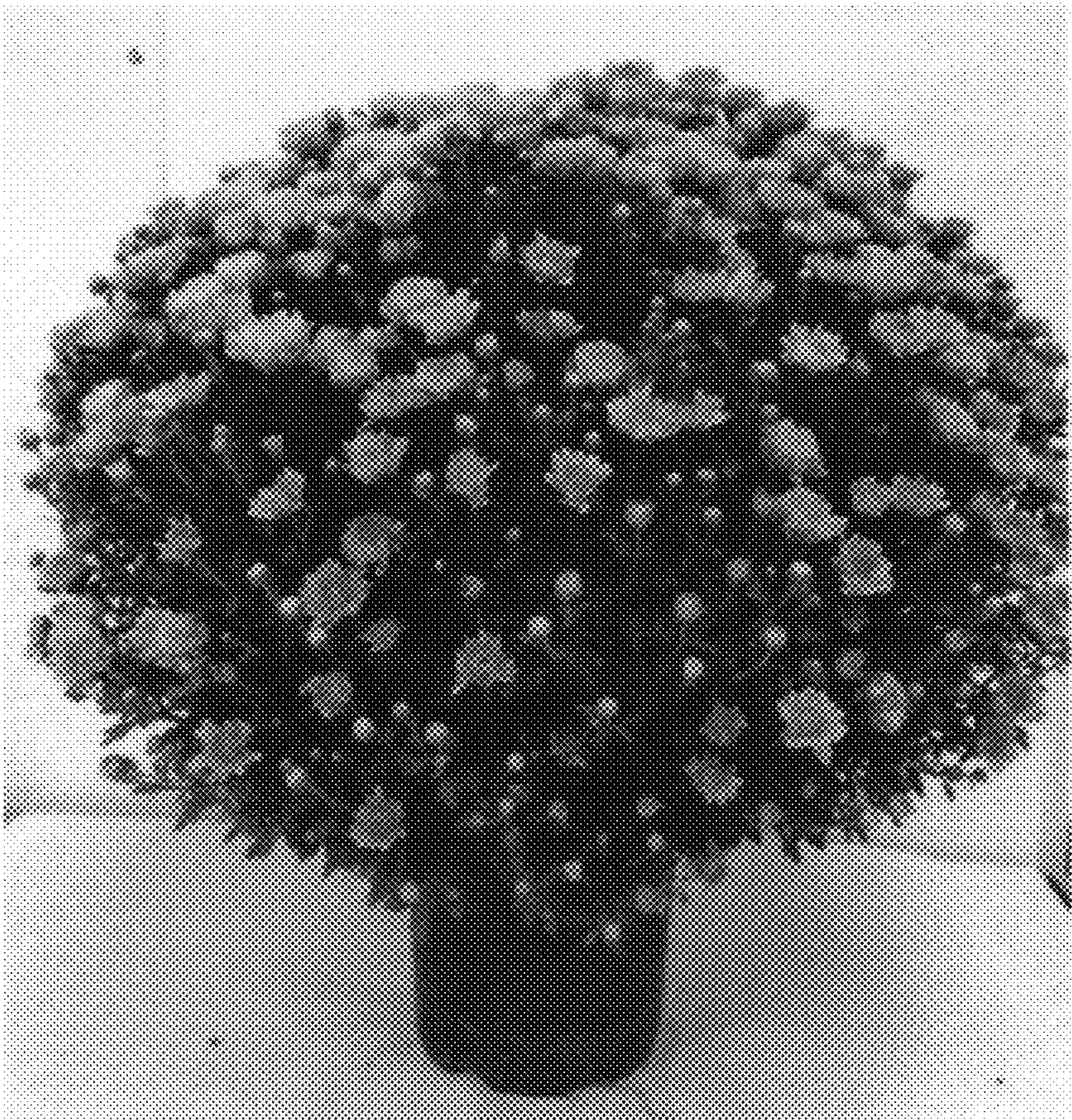


FIGURE 2