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

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(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0050'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0050**

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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 32 days.

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(52) **U.S. Cl.**
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CPC *A01H 5/0255* (2013.01)

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

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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0050' particularly distinguished by the medium size
plant with round mound plant habit, a medium-small size
orange flower and a natural season response in early-mid
October.

1 Drawing Sheet

1

2

Latin name of the genus and species of the plant claimed:
Chrysanthemum x morifolium.
Varietal denomination: 'CIFZ0050'.

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 'CIFZ0050'.

'CIFZ0050' is a product of a planned breeding program.
The new cultivar has medium size plant with round mound
plant habit, a medium-small size orange flower and a natural
season response in early-mid October.

'CIFZ0050' originated from a mutation: Stock x-rayed at
1750 RAD in October of 2013. Single cutting sport from the
stock.

The female parent was an unnamed pink/lavender seed-
ling from own breeding '10-M078'.

When compared to the female parent, 'CIFZ0050' has:

- (1) Similar flower type and size but orange flowers versus medium lavender/pink of the sport parent
- (2) Blackcloth response is similar but natural season response is a day or two faster than the sport parent
- (3) Similar plant habit with similar to a bit smaller overall plant size than the sport parent

No male parent.

The first act of asexual reproduction of 'CIFZ0050' 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 'CIFZ0050' are
firmly fixed and are retained through successive generations
of asexual reproduction.

'CIFZ0050' 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.

'CIFZ0050' 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 'CIFZ0050' 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 'CIFZ0050' 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 2016 both showing a plant from the
same natural outdoor trial in Gilroy, Calif. These plants were
about 11 weeks of age. One rooted cutting per pot had been
planted in a one gallon pot, not pinched in week 22. Plants
started flowering in August.

DETAILED BOTANICAL DESCRIPTION

The measurements were taken in Gilroy, Calif. in August
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 'CIFZ0050' AND TWO MOST SIMILAR VARIETIES:		
	'CIFZ0050'	'Spicy Yocheryl', U.S. Plant Pat. No. 13,221
Flowering response (blackcloth):	Half a week slower	Half a week faster
Flowering response (natural):	5 days slower, and more so in the south	5 days faster, and more so in the south
Flower color:	Brighter orange color without a two-tone effect	Duller orange color with a two-tone effect
Flower size:	Smaller	Bigger
Plant habit or size:	Larger plant in blackcloth but smaller plant natural with fuller and rounder plant habit	Smaller plant in blackcloth but bigger plant natural with open, more upright plant habit
	'CIFZ0050'	'Amiko Bronze', U.S. Plant Pat. No. 24,201
Flowering response: (blackcloth):	Similar	Similar
Flowering response (natural):	Similar	Similar
Color fading:	Less fading	More fading
Flower color:	Bright orange	Dull orange
Flower size:	Smaller	Bigger
Plant habit or size:	Rounder, less oval plant habit compared to 'Amiko Bronze'	More oval, less round plant habit compared to 'CIFZ0050'

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).—17-19 cm.

Plant height (inflorescence included).—20-22 cm.

Plant width.—32-35 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 137C.

Immature leaf, color lower surface.—RHS 137C.

Mature leaf, color, upper surface.—Between RHS 137A and RHS 137B.

Mature leaf, color lower surface.—RHS 137C.

Length.—2.8-3.2 cm.

Width.—2.0-2.4 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 138B.

Color of veins, lower surface.—RHS 138B.

Pattern of veining.—Palmate.

Petiole color.—RHS 137C.

Petiole length.—1.2-1.5 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.—7-8 cm.

Diameter.—0.4-0.5 cm.

Length of internodes.—0.6-1.0 cm.

Texture.—Covered with Bifid hairs.

Color of peduncle.—RHS 137C.

Length of peduncle.—4.5-7.8 cm.

Peduncle diameter.—0.2 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 6 weeks.

Natural season flowering.—Early-mid October.

Quantity of inflorescences per plant.—70-80, with many small buds developing.

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

Fragrance.—Slightly spicy.

Bud (when showing color):

Color.—RHS 175A.

Length.—1.3-1.7 cm.

Width.—1.0-1.3 cm.

Shape.—Oblate.

Immature inflorescence:

Diameter.—3.5-4.0 cm.

Color of ray florets, upper surface.—RHS 14B overlain with RHS 169A to RHS 169B.

Color of ray florets, lower surface.—RHS 15C.

Mature inflorescence:

Diameter.—4.5-5.2 cm.

Depth.—1.8-2.2 cm.

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

Receptacle color.—RHS 145B.

Receptacle height.—0.5 cm.

Receptacle diameter.—0.4 cm.

40

Ray florets:

Average quantity of florets.—Between 140 and 160 in many whorls.

Color of florets, upper surface (abaxial).—RHS 14B, overlain with RHS 169B to RHS 169C.

Color inner surface (adaxial).—RHS 15D.

Length.—1.9-2.2 cm.

Width/diameter.—0.5-0.6 cm.

Shape.—Oblong to elliptical.

Apex shape.—Most often emarginated or praemorse.

Base shape.—Attenuate.

Margin.—Entire.

Texture, upper surface.—Smooth and entire.

Lower surface.—Smooth and entire.

Disc florets: None present.

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Phyllaries:

Quantity.—30-35.

Color, upper surface.—RHS 139A.

Color, lower surface.—RHS 137A.

Length.—0.6-0.7 cm.

Width.—0.15-2.0.

Shape.—Lanceolate.

65

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 florets only, which are not developed.
 5 *Fertility/seed set.*—Has not been determined to date.
Disease/pest resistance.—Has not been determined to date.
 What is claimed is:
 10 1. A new and distinct variety of *Chrysanthemum* plant named 'CIFZ0050' substantially as illustrated and described herein.

* * * * *



FIGURE 1

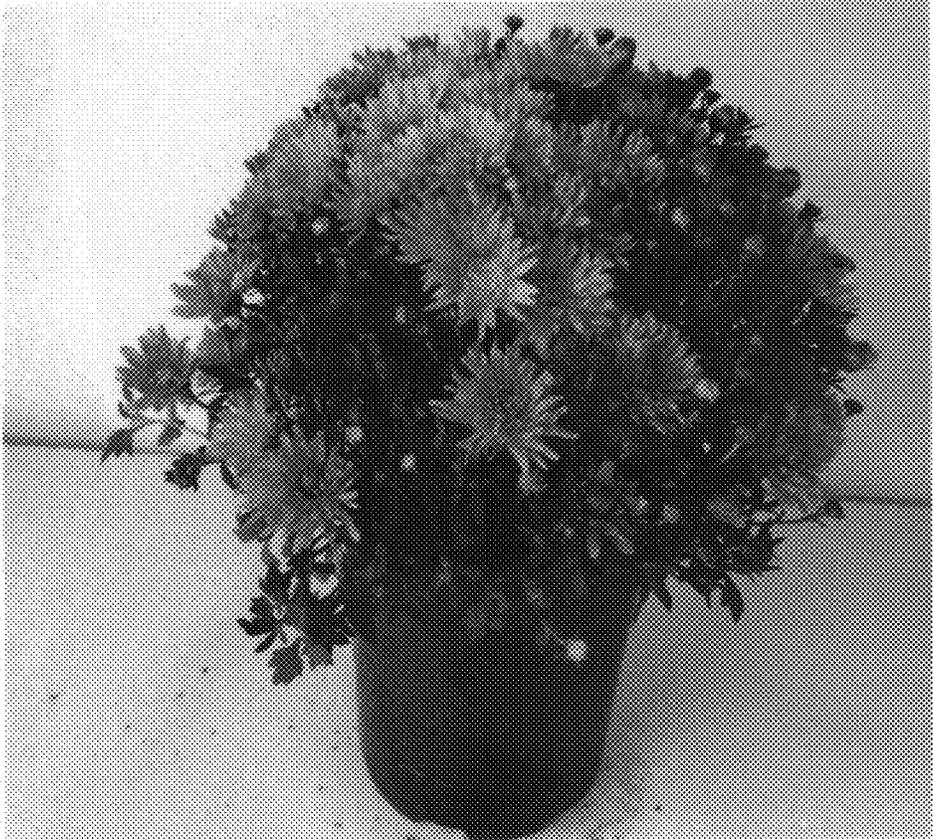


FIGURE 2