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

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(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0048'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0048**

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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
'CIFZ0048' particularly distinguished by the medium-small
size red decorative flower, medium-small size plant with
round oval plant habit and a natural season response in 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: 'CIFZ0048'.

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 'CIFZ0048'.

'CIFZ0048' is a product of a planned breeding program.
The new cultivar has medium-small size red decorative
flower, medium-small size plant with round oval plant habit
and a natural season response in early October.

'CIFZ0048' originated from a mutation: Female parent
x-rayed at 1750 RAD in October of 2013. Single cutting
sport from the female parent.

The female parent was 'Ashley Cinnamon' ('CIFZ0038').

TABLE 1

When compared to the female parent, 'CIFZ0048' has:
1) Similar flower type with a bit larger size and darker more red/less bronze-red color than 'Ashley Cinnamon'
2) Blackcloth and natural season response is one or two days slower than 'Ashley Cinnamon'
3) Similar plant habit and similar plant size as 'Ashley Cinnamon'

No male parent.

The first act of asexual reproduction of 'CIFZ0048' was
accomplished when vegetative cuttings were propagated
from the initial selection, this initial selection took place in
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 'CIFZ0048' are
firmly fixed and are retained through successive generations
of asexual reproduction.

'CIFZ0048' 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.

'CIFZ0048' 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 'CIFZ0048' 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 'CIFZ0048' 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 2

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0048' AND TWO MOST SIMILAR VARIETIES:		
	'CIFZ0048'	'Raquel', U.S. Plant Pat. No. 8,982
Flowering response (blackcloth):	2 days faster	2 days slower
Flowering response (natural):	5 days faster, except in north U.S. where this variety can be a week slower	5 days slower, except in north U.S. where this variety can be a week faster
Flower color:	Scarlet red color	Deeper red color
Flower size:	Bit smaller	Bit bigger
Plant habit or size:	Round, more oval plant shape	More wide plant shape

TABLE 3

	'CIFZ0048'	'Zanmuryder', U.S. Plant Pat. No. 24,646
Flowering response (blackcloth):	2 weeks faster	2 weeks slower
Flowering response (natural):	Half a week slower	Half a week faster
Foliage color:	Darker green	Lighter green

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).—18-20 cm.

Plant height (inflorescence included).—21-23 cm.

Plant width.—27-32 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 137B.

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

Mature leaf, color, upper surface.—RHS 137B.

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

Length.—4.0-5.0 cm.

Width.—2.7-3.4 cm.

Shape.—Ovate.

Base shape.—Attenuate.

Apex shape.—Mucronate.

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 137B.

Petiole length.—1.7-2.5 cm.

Diameter.—0.25-0.3 cm.

Texture.—Covered with bifid hairs.

Stem:

Quantity of main branches per plant.—9-11.

Color of stem.—RHS 137B with shade of RHS 183B.

Length of stem.—10-12 cm.

Diameter.—0.5-0.6 cm.

Length of internodes.—0.6-1.0 cm.

Texture.—Bifid hairs.

Color of peduncle.—RHS 138B.

Length of peduncle.—6.3-6.8 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 6.5 weeks.

Natural season flowering.—Early October.

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

Lastingness of individual blooms on the plant.—About 5.5 weeks from first color.

Fragrance.—Slightly spicy.

Bud (when showing color):

Color.—RHS 187B, initially with green center RHS 137D.

Length.—1.0-1.2 cm.

Width.—1.0-1.2 cm.

Shape.—Oblate.

Immature inflorescence:

Diameter.—3.0-3.5 cm.

Color of ray florets, upper surface.—RHS 185A.

Color of ray florets, lower surface.—Close to RHS 183C; RHS 14A at base.

Mature inflorescence:

Diameter.—3.6-4.3 cm.

Depth.—1.3-1.5 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.—0.5 cm.

Ray florets:

Average quantity of florets.—Between 180 and 200 in many whorls.

Color of florets, upper surface (abaxial).—RHS 185A.

Color inner surface (adaxial).—RHS 183C; RHS 14B at base.

Length.—1.4-1.6 cm.

Width/diameter.—0.4-0.6 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.

55 Disc Florets: None present.

Phyllaries:

Quantity.—25-30.

Color, upper surface.—RHS 137D.

Color, lower surface.—RHS 137B.

60 *Length.*—0.5-0.6 cm.

Width.—0.15-2.0.

Shape.—Lanceolate.

Apex shape.—Acute.

Base.—Fused.

65 *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.

Fertility/seed set.—Has not been determined to date.

5 *Disease/pest resistance.*—Has not been determined to date.

What is claimed is:

1. A new and distinct variety of *Chrysanthemum* plant
named 'CIFZ0048' substantially as illustrated and described
10 herein.

* * * * *



FIGURE 1



FIGURE 2