



US00PP29223P2

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

(10) **Patent No.:** **US PP29,223 P2**

(45) **Date of Patent:** **Apr. 10, 2018**

(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0057'

(51) **Int. Cl.**
A01H 5/02 (2006.01)

(50) Latin Name: *Chrysanthemum*×*morifolium*
Varietal Denomination: **CIFZ0057**

(52) **U.S. Cl.**
USPC **Plt./290**

(71) Applicant: **SYNGENTA PARTICIPATIONS AG,**
Basel (CH)

(58) **Field of Classification Search**
USPC **Plt./290**
CPC **A01H 5/0255**
See application file for complete search history.

(72) Inventor: **Mark A. Smith,** Alva, FL (US)

Primary Examiner — Kent L Bell

(73) Assignee: **Syngenta Participations AG,** Basel
(CH)

(74) *Attorney, Agent, or Firm* — Dale Skalla

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0057' particularly distinguished by the medium sized
(1.75+ inch) orange decorative flowers, compact sized plant
with round mound habit and a natural season response in
early September.

(21) Appl. No.: **15/530,553**

1 Drawing Sheet

(22) Filed: **Jan. 27, 2017**

1

Latin name of the genus and species of the plant claimed:
Chrysanthemum×*morifolium*.
Varietal denomination: 'CIFZ0057'.

BACKGROUND OF THE NEW PLANT

The present invention comprises a new *Chrysanthemum*,
botanically known as *Chrysanthemum*×*morifolium*, and
hereinafter referred to by the variety name 'CIFZ0057'.

'CIFZ0057' is a product of a planned breeding program.
The new cultivar has medium sized (1.75+ inch) orange
decorative flowers, compact sized plant with round mound
habit and a natural season response in early September.

'CIFZ0057' originated from a cross made in February
2008 in Tenjo, Columbia. The female parent was the
unnamed red colored seedling '05-M242'.

Compared to the female parent, 'CIFZ0057' has:

1. Similar inflorescence type that is larger in size with
orange inflorescence color compared to the female
parent that has a red color. Also ray floret tips are
smooth not forked like the female parent.
2. Natural season response is similar but blackcloth
response is half a week slower than the female parent.
3. Similar plant height but less plant width than the female
parent.

The male parent was the unnamed pink/lavender seedling
'04-M173'.

Compared to the male parent, 'CIFZ0057' has:

1. Larger inflorescence size with no disc florets and
orange not pink/lavender inflorescence color like the
male parent.
2. Natural season response is similar but blackcloth
response is half a week slower than the male parent.
3. Similar plant height but less plant width than the male
parent.

The resultant seed was sown in June 2013 in Gilroy, Calif.

The first act of asexual reproduction of 'CIFZ0057' was
accomplished when vegetative cuttings were propagated

2

from the initial selection, this initial selection took place in
Oct. 11, 2013 in Monroeville, N.J.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings
of the plant initiated January 2014 in Mebane, N.C., and
continuing thereafter, has demonstrated that the combination
of characteristics as herein disclosed for 'CIFZ0057' are
firmly fixed and are retained through successive generations
of asexual reproduction.

'CIFZ0057' 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.

'CIFZ0057' 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 'CIFZ0057' 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
inflorescence and foliage characteristics of 'CIFZ0057' with
colors being as true as possible with an illustration of this
type. The photographic drawings show in FIG. 1 a close
view of inflorescences of the new variety and in FIG. 2 a
flowering plant from an indoor trial.

The aforementioned photographs: FIG. 1, as well as FIG.
2, were taken in August 2016 both showing a plant from the
same blackcloth indoor trial in Gilroy, Calif. These plants
were about 9 weeks of age. One rooted cutting per pot had
been planted in a 6 inch pot in week 24, not pinched.

Shortday blackcloth treatment was applied from week 25 on. 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 'CIFZ0057' AND TWO MOST SIMILAR VARIETIES:		
	'CIFZ0057'	'Electra Amber Imp.'
Flowering response (blackcloth):	0.5 week slower	0.5 week faster
Inflorescence color:	Darker color	Lighter color
Inflorescence shape:	Flatter ray floret	More curved ray floret
Plant habit or size:	Smaller plant size	Bigger plant size
Inflorescence size:	Similar inflorescence size	Similar inflorescence size
	'CIFZ0057'	'Daybreak Dark Bronze' (No US Patent)
Flowering response (blackcloth):	Two days slower	Two days faster
Flowering response (natural):	Similar except in the south where it can be a week slower than 'Daybreak Dark Bronze'	Similar except in the south where it can be a week faster than 'CIFZ0057'
Inflorescence color:	Similar	Similar
Inflorescence size:	Bigger inflorescence	Smaller inflorescence
Plant habit or size:	Similar	Similar

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).—11-13 cm.

Plant height (inflorescence included).—16-18 cm.

Plant width.—32-34 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 141A.

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

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

Mature leaf, color lower surface.—RHS 138A.

Length.—3.7-5.2 cm.

Width.—2.5-3.3 cm.

Shape.—Ovate.

Base shape.—Attenuate.

Apex shape.—Rounded to obtuse.

Margin.—3 main lobes, irregularly serrulated.

Texture, upper surface.—Bifid hairs.

Texture, lower surface.—Bifid hairs.

Color of veins, upper surface.—RHS 141C.

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

Pattern of veining.—Palmate.

Petiole color.—RHS 138A.

Petiole length.—1.3-1.8 cm.

Diameter.—0.2-0.25 cm.

Texture.—Covered with bifid hairs.

Stem:

Quantity of main branches per plant.—8-10.

Color of stem.—RHS 138B.

Length of stem.—8-10 cm.

Diameter.—0.3-0.5 cm.

Length of internodes.—0.5-0.75 cm.

Texture.—Bifid hairs.

Color of peduncle.—RHS 138A.

Length of peduncle.—5.3-6.0 cm.

Peduncle diameter.—0.15-0.2 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).—About 5 weeks.

Natural season flowering.—Early September.

Quantity of inflorescences per plant.—40-75.

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

Fragrance.—Slightly spicy.

Bud (when showing color):

Color.—RHS 13B, some shade of RHS 172C.

Length.—0.9-1.1 cm.

Width.—1.4-1.6 cm.

Shape.—Oblate.

Immature inflorescence:

Diameter.—3.0-3.3 cm.

Color of ray florets, upper surface.—RHS 13B, some shade of RHS 172B.

Color of ray florets, lower surface.—RHS 13C, shade of RHS 170C.

Mature inflorescence:

Diameter.—4.2-4.5 cm.

Depth.—1.2-1.5 cm.

Total diameter of disc.—No disc observed.

Receptacle color.—RHS 145A.

Receptacle height.—0.5 cm.

Receptacle diameter.—0.5 cm.

Ray florets:

Average quantity of florets.—Between 200 and 230 in many whorls.

Color of florets, upper surface (abaxial).—RHS 13C, shade of RHS 170B.

Color inner surface (adaxial).—RHS 12C, shade of RHS 170B.

Length.—1.4-1.6 cm.

Width/diameter.—0.35-0.5 cm.

Shape.—Oblong to elliptical.

Apex shape.—Most often emarginate or praemorse.

Base shape.—Attenuate.

Margin.—Entire.

Texture, upper surface.—Smooth, entire.

Lower surface.—Smooth, entire.

Disc florets: None present.

Phyllaries:

Quantity.—Approximately 25.

Color, upper surface.—RHS 139A.

Color, lower surface.—RHS 139B.

Length.—0.8-1.0 cm.

Width.—0.15-0.3 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.—0.3-0.5 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.
Disease/pest resistance.—Has not been determined to
 date.
 10 What is claimed is:
 1. A new and distinct variety of *Chrysanthemum* plant
 named 'CIFZ0057' substantially as illustrated and described
 herein.

* * * * *



FIGURE 1



FIGURE 2