



US00PP33667P2

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

(10) **Patent No.:** **US PP33,667 P2**

(45) **Date of Patent:** **Nov. 23, 2021**

(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0088'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0088**

(71) Applicant: **SYNGENTA CROP PROTECTION**
AG, Basel (CH)

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

(73) Assignee: **Syngenta Crop Protection AG, Basel**
(CH)

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

(21) Appl. No.: **17/232,349**

(22) Filed: **Apr. 16, 2021**

(51) **Int. Cl.**
A01H 5/02 (2018.01)
A01H 6/14 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./291**

(58) **Field of Classification Search**
USPC **Plt./286, 287, 291**
See application file for complete search history.

Primary Examiner — Susan McCormick Ewoldt

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

(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0088' particularly distinguished by its medium size
plant with mound plant habit, a medium size decorative
flower, pink/lavender flower color with darker flower center
and a natural season response late September/early October.

1 Drawing Sheet

1

Latin name of the genus and species of the plant claimed:
Chrysanthemum x morifolium.
Varietal denomination: 'CIFZ0088'.

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 'CIFZ0088'.

'CIFZ0088' is a product of a planned breeding program.
The new cultivar has medium size plant with mound plant
habit, a medium size decorative flower, pink/lavender flower
color with darker flower center and a natural season
response late September/early October.

'CIFZ0088' originated from a natural mutation of 'Regal
Yocheryl' in 2017. 'CIFZ0088' was selected from stock that
had been flowered to prove the mutation was stable on Jan.
2, 2018 in Alva, Fla.

The female parent was the variety 'Regal Yocheryl', U.S.
Plant Pat. No. 13,974.

TABLE 1

Characteristics of the female parent, compared to 'CIFZ0088':		
Trait	'CIFZ0088'	'Regal Yocheryl', U.S. Plant Pat. No. 13,974
Natural response:	Similar	Similar
Blackcloth response:	Similar	Similar
Flower size:	Similar	Similar
Flower color:	Lighter, two-tone effect more obvious	Darker, two-tone effect less obvious
Flower type:	Similar	Similar
Plant size:	Less Spread	More Spread
Plant habit:	Similar	Similar

As the new variety is the result of mutation breeding,
there is not a male parent.

The first act of asexual reproduction of 'CIFZ0088' was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in January 2018 in Mebane,
N.C.

2

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings
of the plant initiated in January 2018 and continuing there-
after, has demonstrated that the combination of characteris-
tics as herein disclosed for 'CIFZ0088' are firmly fixed and
are retained through successive generations of asexual
reproduction.

'CIFZ0088' 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 has not yet been
applied for. 'CIFZ0088' has not been made publicly avail-
able 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
'CIFZ0088' 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 drawing shows typical
flower and foliage characteristics of 'CIFZ0088' with colors
being as true as possible with an illustration of this type.

The photographic drawing shows 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 September 2020 both showing a plant from
the same blackcloth outdoor trial in Enkhuizen, The Neth-
erlands.

These plants were about 12 weeks of age. One rooted
cutting per pot had been planted in a 19 cm pot, not pinched
in week 24, and black clothed from week 29. Plants started
flowering the end of August.

DETAILED BOTANICAL DESCRIPTION

The measurements were taken in Enkhuizen, The Netherlands in September 2020 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 'CIFZ0088' AND TWO MOST SIMILAR VARIETIES:		
Trait	'CIFZ0088'	'Yocheryl', U.S. Plant Pat. No. 11,846
Natural response:	1/4 week faster	1/4 week slower
Blackcloth response:	Similar	Similar
Flower size:	Similar or bit smaller	Similar or bit larger
Flower color:	Similar or bit lighter	Similar or a bit darker
Flower type:	Similar	Similar
Plant size:	Smaller	Larger
Plant habit:	Less height gives more rounded appearance	More height gives more upright appearance
Flower longevity:	Similar	Similar
Plant strength:	Similar	Similar
Flowering uniformity:	Similar	Similar

TABLE 3

Trait	'CIFZ0088'	'PPP Mil PK05', U.S. Plant Pat. No. 16,968
Natural response:	1/2 week faster	1/2 week slower
Blackcloth response:	At least 1 week faster	At least 1 week slower
Flower size:	Smaller	Larger
Flower color:	Darker	Lighter
Flower type:	Similar	Similar
Plant size:	Taller, less spread	Shorter, wider
Plant habit:	More even height to width	Flatter/wider
Flower longevity:	40% longer	40% shorter
Flowering uniformity:	More uniform flowering	Less uniform flowering

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 cm.

Plant height (inflorescence included).—17 cm.

Plant width.—27 cm.

Roots:

Number of days to initiate roots.—About 4 days at about 22° C.

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

Type.—Fine, fibrous, free branching.

Color.—RHS N155B.

Foliage:

Arrangement.—Alternate.

Immature leaf, color upper surface.—RHS 147A.

Immature leaf, color lower surface.—RHS 147B.

Mature leaf, color, upper surface.—RHS 147A.

Mature leaf, color lower surface.—RHS 147A.

Length.—5.2 cm.

Width.—4.1 cm.

Shape.—Ovate, with distinct lobes.

Base shape.—Attenuate.

Apex shape.—Mucronate.

Margin.—5-lobed (palmate), edge dentate.

Number of margin indentations.—Many.

Depth of margin indentations.—Medium.

Leaf length terminal lobe relative to total leaf length.—

Long.

Leaf depth lower lateral sinus.—Medium.

Texture, upper surface.—Smooth.

Texture, lower surface.—Bifid hairs.

Color of veins, upper surface.—RHS 147B.

Color of veins, lower surface.—RHS 147B.

Pattern of veining.—Palmate.

Petiole color.—RHS 147B.

Petiole length.—0.9 cm.

Diameter.—0.2 cm.

Texture.—Bifid hairs.

Presence of stipules.—Yes.

If present, size of stipules.—Medium.

Stem:

Quantity of main branches per plant.—6-8.

Color of stem.—RHS 138A.

Length of stem.—9.0-10.0 cm.

Diameter.—0.5 cm.

Length of internodes.—1.5-2.6 cm.

Texture.—Bifid hairs.

Color of peduncle.—RHS 137C.

Length of peduncle.—3.6-4.6 cm.

Peduncle diameter.—0.2 cm.

Texture.—Bifid hairs.

Inflorescence:

Type.—Compositae, solitary, decorative-type inflorescences borne terminally above foliage, ligulate ray florets arranged acropetally on a capitulum giving a double flower.

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

Natural season flowering.—Late September to early October.

Quantity of inflorescences per plant.—100-120 with many small buds developing.

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

Fragrance.—Spicy.

50 Bud (when showing color):

Color.—RHS 64A.

Length.—1.0 cm.

Width.—1.1-1.2 cm.

Shape.—Ovate.

55 Immature inflorescence (at moment of opening):

Diameter.—2.1-2.5 cm.

Color of ray florets, upper surface.—RHS N74D.

Color of ray florets, lower surface.—RHS 75A.

60 Mature inflorescence:

Diameter.—4.8 cm.

Depth.—2.4 cm.

Total diameter of disc.—No disc present.

Receptacle color.—RHS 137B.

Receptacle height.—0.4 cm.

65 *Receptacle diameter.*—1.6 cm.

Length of corolla tube.—Short.

Ray florets:

Average quantity of florets.—170-180 in several whorls.

Color of florets, upper surface.—RHS 75B.

Color lower surface.—RHS 75B; RHS 75D towards 5 base.

Length.—1.9 cm.

Width/diameter.—0.7 cm.

Shape.—Elliptical.

Apex shape.—Obtuse; occasionally dentate. 10

Base shape.—Tube.

Margin.—Entire. Small incisions may be present at tip.

Margin.—Type of rolling — Moderately involute.

Texture, upper surface.—Papillate.

Lower surface.—Papillate. 15

Ribs present.—Yes.

Number of keels.—2.

Profile at widest point.—Weakly convex.

Longitudinal axis shape.—Reflexing.

Disc florets:

Number of disc florets.—No development of disc florets. 20

Inflorescence (at moment of senescence):

Color of ray florets, upper surface.—RHS 75C.

Color of ray florets, lower surface.—RHS 75D. 25

Phyllaries:

Quantity.—20-25.

Color, upper surface.—RHS 137B.

Color, lower surface.—RHS 137B.

Length.—0.6 cm.

Width.—0.2 cm.

Shape.—Lanceolate.

Apex shape.—Acute.

Base.—Fused.

Margins.—Entire.

Texture, upper surface.—Glabrous.

Texture, lower surface.—Canescent.

Reproductive organs:

Pistil.—One.

Length.—0.4 cm.

Style color.—RHS 150C.

Style length.—0.3 cm.

Stigma color.—RHS 9B.

Stigma shape.—Bi-parted.

Ovary color.—RHS 149A.

Ovary length.—0.2 cm.

Ovary width.—0.1 cm.

Androecium: No disc florets developed and no androecium developed. 20

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

Hardiness.—Has not been determined to date.

What is claimed is:

1. A new and distinct variety of *Chrysanthemum* plant named 'CIFZ0088' substantially as illustrated and described herein. 25

* * * * *



FIG. 1



FIG. 2