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Smith

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(54) **CHRYSANTHEMUM PLANT NAMED**
‘CIFZ0102’

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0102**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
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CPC *A01H 6/1424* (2018.05)

(58) **Field of Classification Search**
USPC Plt./291, 292, 297
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See application file for complete search history.

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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
‘CIFZ0102’ particularly distinguished by its large size plant
with mound plant habit, a medium size decorative flower,
pink flower color and a natural season response early
October

1 Drawing Sheet

1

Latin name of the genus and species of the plant claimed:
Chrysanthemum x morifolium.
Varietal denomination: ‘CIFZ0102’.

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 ‘CIFZ0102’.

‘CIFZ0102’ is a product of a planned breeding program.
The new cultivar has large size plant with mound plant habit,
a medium size decorative flower, pink flower color and a
natural season response early October

‘CIFZ0102’ originated from a mutation of X-ray treated
cuttings in November 2019 in Fort Myers, Fla. ‘CIFZ0102’
was selected from the resulting plants on Mar. 20, 2020 in
Alva, Fla.

The sport parent was a proprietary seedling ‘FC0116’, not
patented.

TABLE 1

Characteristics of the female parent, compared to ‘CIFZ0102’:		
	‘CIFZ0102’	‘FC0116’
Natural response:	2 days faster	2 days slower
Blackcloth response:	2 days faster	2 days slower
Flower size:	Similar	Similar
Flower color:	Darker	Lighter
Flower type:	Similar	Similar
Plant size:	Similar	Similar
Plant habit:	Similar	Similar
Flower longevity:	Less color fade	More color fade

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

‘CIFZ0102’ differs from ‘CIFZ0101’ (Co-pending U.S.
Plant patent application Ser. No. 18/109,318) and

2

‘CIFZ0103’ (Co-pending U.S. Plant patent application Ser.
No. 18/109,327) in at least ray floret color.

The first act of asexual reproduction of ‘CIFZ0102’ was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in May 2020 in Alva, Fla.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings
of the plant initiated in May 2020 and continuing thereafter,
has demonstrated that the combination of characteristics as
herein disclosed for ‘CIFZ0102’ are firmly fixed and are
retained through successive generations of asexual repro-
duction.

‘CIFZ0102’ 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. ‘CIFZ0102’ 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
‘CIFZ0102’ 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 ‘CIFZ0102’ 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 on Sep. 5, 2022 both showing a plant from the same indoor blackcloth trial in Enkhuizen, The Netherlands.

These plants were about 13 weeks of age. One rooted cutting per pot had been planted in a 19 cm pot, not pinched in week 23, 2022 and black clothed from week 29. Plants started flowering the end of August 2022.

The measurements were taken in Enkhuizen, The Netherlands, in September 2022 on plants from the same indoor blackcloth trial.

DETAILED BOTANICAL DESCRIPTION

Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.) 2001.

TABLE 2

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0102' AND TWO MOST SIMILAR VARIETIES:		
	'CIFZ0102'	'CIFZ0051', U.S. Plant Pat. No. 29,540
Natural response:	½ week faster in warm nights	½ week slower in warm nights
Blackcloth response:	3 days faster	3 days slower
Flower size:	Larger	Smaller
Flower color:	Similar	Similar
Flower type:	Similar	Similar
Plant size:	Bit larger	Bit smaller
Plant habit:	Similar	Similar

TABLE 3

	'CIFZ0102'	'PPP AMIK 09', U.S. Plant Pat. No. 21,453
Natural response:	Similar but ½ week faster in Florida	Similar but ½ week slower in Florida
Blackcloth response:	Almost 1 week faster	Almost 1 week slower
Flower size:	Smaller	Larger
Flower color:	Similar	Similar
Flower type:	Similar	Similar
Plant size:	Larger	Smaller
Flower longevity:	Similar	More fade
Flowering uniformity:	More uniform	Less Uniform

Plant:

Form, growth and habit.—Herbaceous garden-type, stems. Upright and outwardly spreading, freely branching, strong and rather vigorous growth habit.
Plant height (above soil).—23 cm.
Plant height (inflorescence included).—25 cm.
Plant width.—42 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 137A.
Immature leaf, color lower surface.—RHS 137B.
Mature leaf, color, upper surface.—RHS 137A.
Mature leaf, color lower surface.—RHS 137C.

Length.—4.5 cm.
Width.—3.0 cm.
Shape.—Ovate, with distinct lobes.
Base shape.—Attenuate.
Apex shape.—apiculate.
Margin.—3 lobed.
Number of margin indentations.—7-9.
Depth of margin indentations.—3-5 mm.
Leaf length terminal lobe relative to total leaf length.—1:2.5.
Leaf depth lower lateral sinus.—1.6 cm.
Texture, upper surface.—Bifid hairs.
Texture, lower surface.—Bifid hairs.
Color of veins, upper surface.—RHS 137C.
Color of veins, lower surface.—RHS 137C.
Pattern of veining.—Palmate.
Petiole color.—RHS 137C.
Petiole length.—2.0-2.4 cm.
Diameter.—0.2 cm.
Texture.—Bifid hairs.
Presence of stipules.—No.

Stem:

Quantity of main branches per plant.—6-8.
Color of stem.—RHS 138B.
Length of stem.—Approximately 14 cm.
Diameter.—0.3 cm.
Length of internodes.—1.0-1.5 cm.
Texture.—Bifid hairs.
Color of peduncle.—RHS 138B.
Length of peduncle.—3.0-3.5 cm.
Peduncle diameter.—0.2 cm.
Texture.—Bifid hairs.

Inflorescence:

Type.—Compositae, solitary, decorative inflorescences borne terminally above foliage, elliptical ray florets arranged in whorls on a capitulum giving a double flower.
Quantity of short days to flowering (response time).—Approximately 6.5 weeks.
Quantity of inflorescences per plant.—70-90 with several 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 38C.
Length.—0.7 cm.
Width.—0.5 cm.
Shape.—Oblate.

Immature inflorescence (at moment of opening):

Diameter.—2.5 cm.
Color of ray florets, upper surface.—RHS 73B.
Color of ray florets, lower surface.—RHS 75C.

Mature inflorescence:

Diameter.—3.5 cm.
Depth.—1.6 cm.
Total diameter of disc.—0.1-0.6 cm.
Receptacle color.—RHS 147B.
Receptacle height.—0.3 cm.
Receptacle diameter.—1.1 cm.
Length of corolla tube.—0.1 cm.

Ray florets:

Average quantity of florets.—70-90.
Color of florets, upper surface.—RHS 56A.
Color lower surface.—RHS 75D.

Length.—1.4 cm.
Width/diameter.—0.5 cm.
Shape.—Elliptical.
Apex shape.—Dentate.
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.
Ribs present.—Yes.
Number of keels.—2.
Profile at widest point.—Flat.
Longitudinal axis shape.—Sinusoidal.
Longitudinal axis curvature strength.—Weak.
Corolla tube shape.—Circular.

Disc florets:

Number of disc florets.—10-50.
Width.—0.1 cm.
Length.—1.0 cm.
Color.—RHS 14A.

Inflorescence (at moment of senescence):

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

Phyllaries:

Quantity.—20-24.
Color, upper surface.—RHS 147B.
Color, lower surface.—RHS 137A.
Length.—0.6-1.0 cm.
Width.—0.2-0.3 cm.
Shape.—Lanceolate.
Apex shape.—Acute.
Base.—Fused.

Margins.—Entire.
Texture, upper surface.—Glabrous.
Texture, lower surface.—Canescent.

Reproductive organs:

5 *Pistil.*—One.
Length.—0.4 cm.
Style color.—RHS 5C.
Style length.—0.3 cm.
Stigma color.—RHS 5C.

10 *Stigma shape.*—Bi-parted.
Ovary color.—RHS 157C.
Ovary length.—0.2 cm.
Ovary width.—0.1 cm.

Androecium:

15 *Stamens.*—1, found on only disc florets.
Color of filaments.—RHS 157C.
Length filaments.—0.2 cm.
Anther color.—RHS 14A.
Anther length.—0.2 cm.

20 *Anther shape.*—Oval to club shaped.
Color of pollen.—RHS 14A.
Pollen amount.—Sparse.
Fertility/seed set.—Has not been determined to date.
Disease/pest resistance.—Has not been determined to

25 date.
Hardiness.—Has not been determined to date.

What is claimed is:

30 1. A new and distinct variety of *Chrysanthemum* plant named 'CIFZ0102' substantially as illustrated and described herein.

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FIG. 1

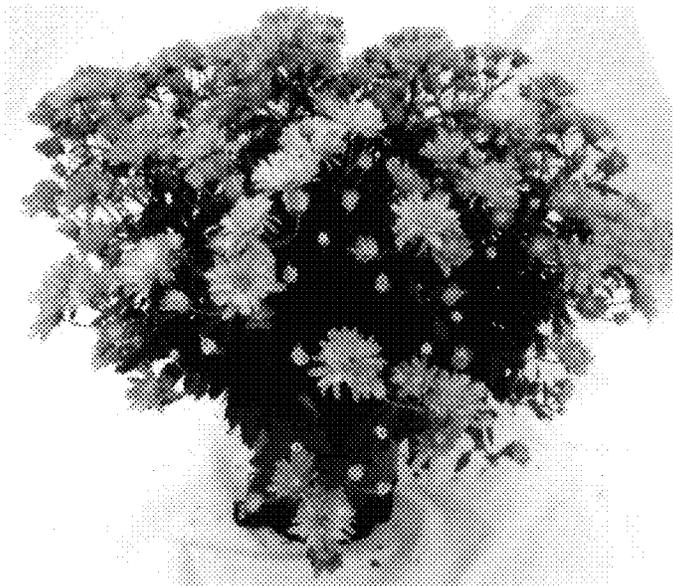


FIG. 2