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Smith

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(54) **CHRYSANTHEMUM PLANT NAMED**
‘CIFZ0111’

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0111**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
USPC **Plt./288**

(58) **Field of Classification Search**
USPC Plt./286, 288
See application file for complete search history.

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(57) **ABSTRACT**

A new garden type Chrysanthemum plant named
‘CIFZ0111’ particularly distinguished by its medium size
plant with round plant habit, a medium size decorative
flower with white flower color and a natural season response
mid to late September.

1 Drawing Sheet

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Latin name of the genus and species of the plant claimed:
Chrysanthemum x morifolium.
Varietal denomination: ‘CIFZ0111’.

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 ‘CIFZ0111’.

‘CIFZ0111’ is a product of a planned breeding program.
The new cultivar has a medium size plant with round plant
habit, a medium size decorative flower with white flower
color and a natural season response mid to late September.

‘CIFZ0111’ originated from a mutation of X-ray treated
cuttings in October 2020 in Fort Myers, Florida ‘CIFZ0111’
was selected from the resulting plants on Apr. 5, 2021 in
Alva, Fla.

The sport parent was an unnamed proprietary seedling
‘FA0493D’.

TABLE 1

Characteristics of the female parent, compared to ‘CIFZ0111’:		
Trait	‘CIFZ0111’	‘FA0493D’
Flower size:	Similar	Similar
Natural response:	½ week slower	½ week faster
Flower color:	Similar	Similar
Flower type:	Similar	Similar
Plant size:	Similar	Similar
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 ‘CIFZ0111’ was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in May 2021 in Alva, Fla.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings
of the plant initiated in May 2021 and continuing thereafter,

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has demonstrated that the combination of characteristics as
herein disclosed for ‘CIFZ0111’ are firmly fixed and are
retained through successive generations of asexual repro-
duction.

5 ‘CIFZ0111’ 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.

10 A Plant Breeder’s Right for this cultivar has not yet been
applied for. ‘CIFZ0111’ 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
15 application by the inventor or another who obtained
‘CIFZ0111’ 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
20 *Chrysanthemum* as a new and distinct variety.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographic drawings show typical
flower and foliage characteristics of ‘CIFZ0111’ with colors
25 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 indoor trial.

30 The aforementioned photographs: FIG. 1, as well as FIG.
2, were taken on Sep. 12, 2023 both showing a plant from
the same blackcloth indoor trial in Enkhuizen, The Nether-
lands.

35 These plants were about 13 weeks of age. One rooted
cutting per pot had been planted in a 15 cm pot, not pinched
in week 23, 2023 and black clothed from week 29. Plants
started flowering the end of August 2023.

The measurements were taken in Enkhuizen, The Neth-
erlands, in September 2023 on plants from the same indoor
blackcloth trial.

DETAILED BOTANICAL DESCRIPTION

Color references are made to The Royal Horticultural Society Colour Chart (RHS) 2001.

TABLE 2

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0111' AND TWO MOST SIMILAR VARIETIES:		
Trait	'CIFZ0111'	'CIFZ0079', U.S. Plant Pat. No. 32,775
Natural response:	½ week slower except in high temperatures	½ week faster except in high temperatures
Blackcloth response:	Similar	Similar
Flower size:	Similar	Similar
Flower color:	Less creamy	More creamy
Flower type:	Similar	Similar
Plant size:	Larger	Smaller
Plant habit:	Similar	Similar

TABLE 3

'FICHRYEVENWHI', U.S. Plant Pat. No. 30,456		
Trait	'CIFZ0111'	'FICHRYEVENWHI', U.S. Plant Pat. No. 30,456
Natural response:	At least ½ week faster	At least ½ week slower
Blackcloth response:	½ week slower	½ week faster
Flower size:	Similar	Similar
Flower color:	Similar	Similar
Flower type:	Similar	Similar
Plant size:	Larger	Smaller
Plant habit:	Similar	Similar
Flowering uniformity:	Less uniform	More 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).—16 cm.
Plant height (inflorescence included).—21 cm.
Plant width.—40 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 137C.
Mature leaf, color, upper surface.—RHS 137A.
Mature leaf, color lower surface.—RHS 137B.
Length.—7.0 cm.
Width.—3.0 cm.
Shape.—oval.
Base shape.—Attenuate.
Apex shape.—acute.
Margin.—5 lobed.
Number of margin indentations.—18-22.
Depth of margin indentations.—3-4 mm.
Leaf length terminal lobe relative to total leaf length.—1:3.3.

Leaf depth lower lateral sinus.—1.9 cm.
Texture, upper surface.—Bifid hairs.
Texture, lower surface.—Bifid hairs.
Color of veins, upper surface.—RHS 138D.
Color of veins, lower surface.—RHS 138D.
Pattern of veining.—Palmate.
Petiole color.—RHS 138D.
Petiole Length.—1.6 cm.
Diameter.—0.2 cm.
Texture.—Bifid hairs.
Presence of stipules.—Yes.
If present, size of stipules.—1 mm.
Colour of stipule.—RHS 137A.

Stem:

Quantity of main branches per plant.—7-8.
Color of stem.—RHS 144A.
Length of stem.—10.0-13.0 cm.
Diameter.—0.3-0.4 cm.
Length of internodes.—2-2.5 cm.
Texture.—Bifid hairs.
Color of peduncle.—RHS 137D.
Length of peduncle.—2.5-3.5 cm.
Peduncle diameter.—0.2 cm.
Texture.—Bifid hairs.

Inflorescence:

Type.—Compositae, solitary, semi-decorative inflorescences borne terminally above foliage, ligulate ray florets arranged in whorls on a capitulum giving a semi-double flower.
Quantity of short days to flowering (response time).—Approximately 7.5 weeks.
Quantity of inflorescences per plant.—About 250 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 155A.
Length.—0.6 cm.
Width.—0.7 cm.
Shape.—Oblate.

Immature inflorescence (at moment of opening):

Diameter.—2.0 cm.
Color of ray florets, upper surface.—RHS 155A.
Color of ray florets, lower surface.—RHS 155A.

Mature inflorescence:

Diameter.—3-3.5 cm.
Depth.—1.2 cm.
Total diameter of disc.—0.5 cm.
Receptacle color.—RHS 137A.
Receptacle height.—0.6 cm.
Receptacle diameter.—1.1 cm.
Length of corolla tube.—0.1 cm.

Ray florets:

Average quantity of florets.—140.
Color of florets, upper surface.—RHS 155A.
Color lower surface.—RHS 155A.
Length.—0.6-2.0 cm (Shortest near disc).
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 Weakly revolute.
Texture, upper surface.—Papillate.

Lower surface.—Papillate.
Ribs present.—Yes.
Number of keels.—2.
Profile at widest point.—Weakly convex.
Longitudinal axis shape.—Straight.
Longitudinal axis curvature strength.—Very weak.
Corolla tube shape.—Oval.
 Disc florets:
Number of disk florets.—30-50.
Width.—0.1 cm.
Length.—0.6 cm.
Colour.—RHS 150D at base, RHS 15A at top.
 Inflorescence (at moment of senescence):
Color of ray florets, upper surface.—RHS 155A.
Color of ray florets, lower surface.—RHS 155A.
 Phyllaries:
Quantity.—16-18.
Color, upper surface.—RHS 137A.
Color, lower surface.—RHS 137B.
Length.—0.4-0.5 cm.
Width.—0.1 cm.
Shape.—Ensiform.
Apex shape.—Acute.
Base.—Fused.
Margins.—Entire.
Texture, upper surface.—Glabrous.
Texture, lower surface.—Canescent.

Reproductive organs:
Pistil.—One.
Length.—0.5 cm.
Style color.—RHS 157D.
 5 *Style length.*—0.3 cm.
Stigma color.—RHS 5B.
Stigma shape.—Bi-parted.
Ovary color.—RHS 157D.
Ovary length.—0.2 cm.
 10 *Ovary width.*—0.1 cm.
 Androecium:
Stamens.—1, found on only disc florets
Color of filaments.—RHS 157D.
Length filaments.—0.3 cm.
 15 *Anther color.*—RHS 154C.
Anther length.—0.2 cm.
Anther shape.—Oval to club shaped.
Color of pollen.—RHS 13A.
Pollen amount.—Abundant.
 20 *Fertility/seed set.*—Has not been determined to date.
Disease/pest resistance.—Has not been determined to date
Hardiness.—Has not been determined to date.
 What is claimed is:
 25 1. A new and distinct variety of *Chrysanthemum* plant
 named 'CIFZ0111' substantially as illustrated and described
 herein.

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FIG. 1



FIG. 2