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Smith

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(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0094'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0094**

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patent is extended or adjusted under 35
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See application file for complete search history.

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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0094' particularly distinguished by its medium size
plant with mound plant habit, medium to small sized deco-
rative flowers with white flower color, and a natural season
response early to mid-October.

1 Drawing Sheet

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Latin name of the genus and species of the plant claimed:
Chrysanthemum x morifolium.
Varietal denomination: 'CIFZ0094'.

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 'CIFZ0094'.

'CIFZ0094' is a product of a planned breeding program.
The new cultivar has a medium sized plant with mound plant
habit, medium to small sized decorative flowers with white
flower color, and a natural season response early to mid-
October.

'CIFZ0094' originated from a cross made in November
2016 in Enkhuizen, The Netherlands. Seeds were sown in
June 2017 in Gilroy, Calif. and 'CIFZ0094' was selected
from the resulting population on Nov. 30, 2017 in Alva, Fla.

The female parent was variety 'Yomildred', U.S. Pat. No.
21,187

TABLE 1

Characteristics of the female parent, compared to 'CIFZ0094':		
Trait	'CIFZ0094'	'Yomildred'
Natural response:	0.5 to 1 week slower	0.5 to 1 week faster
Blackcloth response:	Similar	Similar
Flower size:	Smaller	Larger
Flower color:	Similar	Similar
# flowers on plant:	More flowers	Less flowers
Flower type:	Similar	Similar
Plant size:	Similar	Similar
Plant habit:	Similar	Similar
Flower longevity:	Similar	Similar
Plant strength:	Similar	Similar
Flowering uniformity:	Similar	Similar

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The male parent was an unnamed proprietary seedling
'14-M470', not patented.

TABLE 2

Characteristics of the male parent, compared to 'CIFZ0094':		
Trait	'CIFZ0094'	'14-M470'
Natural response:	3 weeks slower	3 weeks faster
Blackcloth response:	1.5 weeks slower	1.5 weeks faster
Flower size:	Similar	Similar
Flower color:	White	Yellow
Flower type:	Less disc florets	More disc florets
Plant size:	Larger	Smaller
Plant habit:	Similar	Similar

The first act of asexual reproduction of 'CIFZ0094' was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in January 2018 in Alva, Fla.

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 'CIFZ0094' are firmly fixed and
are retained through successive generations of asexual
reproduction.

'CIFZ0094' 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. 'CIFZ0094' 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 'CIFZ0094' 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 'CIFZ0094' 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. 8, 2021 both showing a plant from the same blackcloth outdoor 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, 2021 and black clothed from week 29. Plants started flowering the end of August 2021.

The measurements were taken in Enkhuizen, The Netherlands, in September 2021 on plants from the same outdoor blackcloth trial.

DETAILED BOTANICAL DESCRIPTION

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

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0094' AND TWO MOST SIMILAR VARIETIES

TABLE 3

Trait	'CIFZ0094'	'Jasoda White', U.S. Plant Pat. No. 21,884
Natural response:	Similar or ½ week faster	Similar or ½ week slower
Blackcloth response:	0.5 week faster	0.5 week slower
Flower size:	Larger	Smaller
Flower color:	Similar	Similar
Flower type:	Similar	Similar
Plant size:	Shorter/Wider	Taller/Thinner
Plant habit:	Mound	Round
Plant strength:	More flexible	Stiffer

TABLE 4

Trait	'CIFZ0094'	'Zanmulpine', U.S. Plant Pat. No. 30,154
Natural response:	Similar	Similar
Blackcloth response:	Similar	Similar
Flower size:	Similar	Similar
Flower color:	Creamier	Whiter
Flower type:	Similar	Similar
Plant size:	Similar	Similar
Plant habit:	Similar	Similar
Flower longevity:	Less damage from frost	More damage from frost

TABLE 4-continued

Trait	'CIFZ0094'	'Zanmulpine', U.S. Plant Pat. No. 30,154
Plant strength:	Similar	Similar
Flowering uniformity:	Less uniform flowering	More uniform flowering

10 Plant:
Form, growth and habit.—Herbaceous garden-type, stems Upright and outwardly spreading, freely branching, strong and moderately vigorous growth habit.
 15 *Plant height (above soil).*—20 cm.
Plant height (inflorescence included).—22 cm.
Plant width.—50 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.
 25 Foliage:
Arrangement.—Alternate.
Immature leaf, color upper surface.—RHS 147A.
Immature leaf, color lower surface.—RHS 137C.
 30 *Mature leaf, color, upper surface.*—RHS 147A.
Mature leaf, color lower surface.—RHS 137C.
Length.—8 cm.
Width.—4.5 cm.
Shape.—Ovate, with distinct lobes.
 35 *Base shape.*—Attenuate.
Apex shape.—Abruptly acute.
Margin.—2-4 lobed.
Number of margin indentations.—Approximately 12.
Depth of margin indentations.—Medium.
 40 *Leaf length terminal lobe relative to total leaf length.*—Medium.
Leaf depth lower lateral sinus.—Medium.
Texture, upper surface.—Bifid hairs.
Texture, lower surface.—Bifid hairs.
 45 *Color of veins, upper surface.*—RHS 137B.
Color of veins, lower surface.—RHS 137B.
Pattern of veining.—Palmate.
Petiole color.—RHS 137C.
Petiole length.—1.0-1.5 cm.
Diameter.—0.3 cm.
 50 *Texture.*—Bifid hairs.
Presence of stipules.—Yes.
If present, size of stipules.—Small, up to 0.2 cm long and 0.2 cm wide.
Color of stipule.—RHS 147A.
 55 Stem:
Quantity of main branches per plant.—11.
Color of stem.—RHS 146B.
Length of stem.—12.0-14.0 cm.
Diameter.—0.5 cm.
 60 *Length of internodes.*—1.0-1.5 cm.
Texture.—Bifid hairs.
Color of peduncle.—RHS 146B.
Length of peduncle.—2.0-4.0 cm.
 65 *Peduncle diameter.*—0.2 cm.
Texture.—bifid hairs.

Inflorescence:

Type.—Compositae, solitary, semi-double type 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 weeks.

Quantity of inflorescences per plant.—310 with several small buds developing.

Lastingness of individual blooms on the plant.—About 4.5 weeks from first color.

Fragrance.—Slightly spicy.

Bud (when showing color):

Color.—RHS 2D.

Length.—0.9cm.

Width.—0.9 cm.

Shape.—Oblate.

Immature inflorescence (at moment of opening):

Diameter.—2.1 cm.

Color of ray florets, upper surface.—RHS 155B on outer whorls, 2B inner whorls.

Color of ray florets, lower surface.—RHS 155C.

Mature inflorescence:

Diameter.—4.7 cm.

Depth.—2.0 cm.

Total diameter of disc.—0.2-0.6 cm.

Receptacle color.—RHS 147B.

Receptacle height.—0.5 cm.

Receptacle diameter.—1.6 cm.

Length of corolla tube.—0.4 cm.

Ray florets:

Average quantity of florets.—190 in several whorls.

Color of florets, upper surface.—RHS 155B outer whorls, 2B inner whorls.

Color lower surface.—RHS 155C.

Length.—1.4 cm.

Width/diameter.—0.5 cm.

Shape.—Oblong.

Apex shape.—Tridentate.

Base shape.—Tube.

Margin: entire.—Small incisions may be present at tip.

Margin: type of rolling.—Weakly involute.

Texture, upper surface.—Papillate.

Lower surface.—Papillate.

Ribs present.—Yes.

Number of keels.—1.

Profile at widest point.—Weakly concave.

Longitudinal axis shape.—Reflexing.

Longitudinal axis curvature strength.—Weak.

Corolla tube shape.—Flattened.

Disc florets:

Number of disc florets.—Up to 30-45.

Width.—0.1 cm.

Length.—1.4 cm.

Color.—RHS 17A.

Inflorescence (at moment of senescence):

Color of ray florets, upper surface.—RHS 155C.

Color of ray florets, lower surface.—RHS 155C.

Phyllaries:

Quantity.—20-25.

Color, upper surface.—RHS 147C.

Color, lower surface.—RHS 138D.

Length.—0.6 cm.

Width.—0.1-0.2 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 5D.

Style length.—0.3 cm.

Stigma color.—RHS 5D.

Stigma shape.—Bi-parted.

Ovary color.—RHS 150D.

Ovary length.—0.2 cm.

Ovary width.—0.1 cm.

Androecium:

Stamens.—1, found on only disc florets.

Color of filaments.—RHS 155D.

Length filaments.—0.2 cm.

Anther color.—RHS 17A.

Anther length.—0.2 cm.

Anther shape.—Oval to club shaped.

Color of pollen.—RHS 17A.

Pollen amount.—Moderate.

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:

1. A new and distinct variety of *Chrysanthemum* plant named 'CIFZ0094' substantially as illustrated and described herein.

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FIG. 1



FIG. 2