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Smith

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(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0100'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0100**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
USPC **Plt./290**

(58) **Field of Classification Search**
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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0100' particularly distinguished by its medium size
plant with mound plant habit, a medium size decorative
flower with bronze flower color, and a natural season
response in early to mid-September.

1 Drawing Sheet

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Latin name of the genus and species of the plant claimed:
Chrysanthemum x morifolium.

Varietal denomination: 'CIFZ0100'.

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 'CIFZ0100'.

'CIFZ0100' is a product of a planned breeding program.
The new cultivar has medium size plant with mound plant
habit, a medium size decorative flower with bronze flower
color, and a natural season response in early to mid-Sep-
tember.

'CIFZ0100' originated from a cross made in November
2017 in Enkhuizen, The Netherlands. Seeds were sown in
June 2018 in Gilroy, California and 'CIFZ0100' was
selected from the resulting population on Oct. 26, 2018 in
Alva, Florida.

The female parent was an unnamed proprietary seedling
'14-M332', not patented.

TABLE 1

Characteristics of the female parent, compared to 'CIFZ0100':		
	'CIFZ0100'	'14-M332'
Natural response:	1 week faster	1 week slower
Blackcloth response:	Similar	Similar
Flower size:	Larger	Smaller
Flower color:	Bronze to orange	Dark Pink to purple
Flower type:	Similar	Similar
Plant size:	Smaller	Larger
Plant habit:	More mound	Rounder

The male parent was an unnamed proprietary seedling
'14-M539', not patented.

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TABLE 2

Characteristics of the male parent, compared to 'CIFZ0100':		
	'CIFZ0100'	'14-M539'
Natural response:	1 wk slower	1 wk faster
Blackcloth response:	½ wk faster	½ wk slower
Flower size:	Similar	Similar
Flower color:	Bronze to Orange	Pink/White bicolor
Flower type:	Less disk florets	More disk florets
Plant size:	Bit larger	Bit smaller
Plant habit:	Similar	Similar
Flower longevity:	20% longer	20% shorter

The first act of asexual reproduction of 'CIFZ0100' was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in January 2019 in Alva,
Florida.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings
of the plant initiated in January 2019 and continuing there-
after, has demonstrated that the combination of characteris-
tics as herein disclosed for 'CIFZ0100' are firmly fixed and
are retained through successive generations of asexual
reproduction.

'CIFZ0100' 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. 'CIFZ0100' 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
'CIFZ0100' 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 ‘CIFZ0100’ with colors being as true as possible with an illustration of this type.

The photographic drawings show in FIG. 1 a close view of the flowers 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 3

DIFFERENCES BETWEEN THE NEW VARIETY ‘CIFZ0100’ AND TWO MOST SIMILAR VARIETIES:		
	‘CIFZ0100’	‘Synjac Oranfus’, U.S. Plant Pat. No. 22,657
Natural response:	1 week slower	1 week faster
Blackcloth response:	Similar	Similar
Flower type:	More petals overall	Less petals overall
Plant size:	Similar	Similar
Plant habit:	More mound	Rounder
Flower longevity:	Less color fade	More color fade
Flowering uniformity	Less Uniform	More Uniform

TABLE 4

	‘CIFZ0100’	‘Kickin Spicy Orange’, Patent status unknown
Natural response:	¾ week slower	¾ week faster
Flower size:	Similar	Similar
Flower color:	Darker bronze/orange	Lighter bronze/orange
Flower type:	Similar	Similar
Plant size:	Similar	Similar
Plant habit:	More mound	Rounder
Flower longevity:	25% longer life	25% shorter life

Plant:

Form, growth and habit.—Herbaceous garden-type, stems Upright and outwardly spreading, freely branching, medium vigorous growth habit.

Plant height (above soil).—24 cm.

Plant height (inflorescence included).—26 cm.

Plant width.—44 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 137B.

Mature leaf, color, upper surface.—RHS 139A.

Mature leaf, color lower surface.—RHS 137B.

Length.—4.5 cm.

Width.—3.2 cm.

Shape.—Ovate, with distinct lobes.

Base shape.—Shortly Attenuate.

Apex shape.—Apiculate.

Margin.—3 lobed.

Number of margin indentations.—9-11.

Depth of margin indentations.—2-3 mm.

Leaf length terminal lobe relative to total leaf length.—1:1.6.

Leaf depth lower lateral sinus.—2.0 cm.

Texture, upper surface.—Bifid hairs.

Texture, lower surface.—Bifid hairs.

Color of veins, upper surface.—RHS 137B.

Color of veins, lower surface.—RHS 137C.

Pattern of veining.—Palmate.

Petiole color.—RHS 137B.

Petiole length.—1.3-1.7 cm.

Diameter.—0.2 cm.

Texture.—Bifid hairs.

Presence of stipules.—No.

Stem:

Quantity of main branches per plant.—5-6.

Color of stem.—RHS 146A.

Length of stem.—8.9 cm.

Diameter.—0.4 cm.

Length of internodes.—1.5-2.0 cm.

Texture.—Bifid hairs.

Color of peduncle.—RHS 146A.

Length of peduncle.—3.0-4.5 cm.

Peduncle diameter.—0.3 cm.

Texture.—Bifid hairs.

Inflorescence:

Type.—Compositae, solitary, decorative type inflorescences borne terminally above foliage, ligulate 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.—80-100 with several small buds developing.

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

Fragrance.—Slightly spicy.

Bud (when showing color):

Color.—RHS 45B.

Length.—0.5 cm.

Width.—0.5 cm.

Shape.—Oblate.

Immature inflorescence (at moment of opening):

Diameter.—3 cm.

Color of ray florets, upper surface.—RHS N172A.

Color of ray florets, lower surface.—RHS 173B.

Mature inflorescence:

Diameter.—3.2 cm.

Depth.—1.5 cm.

Total diameter of disc.—0.0-0.6 cm.

Receptacle color.—RHS 148B.
Receptacle height.—0.4 cm.
Receptacle diameter.—1.0 cm.
Length of corolla tube.—0.1 cm.

Ray florets:

Average quantity of florets.—110-120.
Color of florets, upper surface.—RHS N172D.
Color lower surface.—RHS 172B.
Length.—1.4 cm.
Width/diameter.—0.4 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.—No.
Number of keels.—0.
Profile at widest point.—Moderately concave.
Longitudinal axis shape.—Flat.
Longitudinal axis curvature strength.—Straight.
Corolla tube shape.—Circular.

Disc florets:

Number of disc florets.—0-30.
Width.—0.1 cm.
Length.—0.8-1.0 cm.
Color.—RHS 14A.

Inflorescence (at moment of senescence):
Color of ray florets, upper surface.—RHS 163A.
Color of ray florets, lower surface.—RHS 173B.

Phyllaries:

Quantity.—18-22.
Color, upper surface.—RHS 148B.
Color, lower surface.—RHS 139A.

Length.—0.5 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 5C.
Style length.—0.3 cm.
Stigma color.—RHS 5D.
Stigma shape.—Bi-parted.
Ovary color.—RHS 157D.
Ovary length.—0.2 cm.
Ovary width.—0.1 cm.

Androecium:

Stamens.—1, found on only disc florets.
Color of filaments.—RHS 157C.
Length filaments.—0.2 cm.
Anther color.—RHS 15B.
Anther length.—0.2 cm.
Anther shape.—Oval to club shaped.
Color of pollen.—RHS 15B.
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 'CIFZ0100' substantially as illustrated and described herein.

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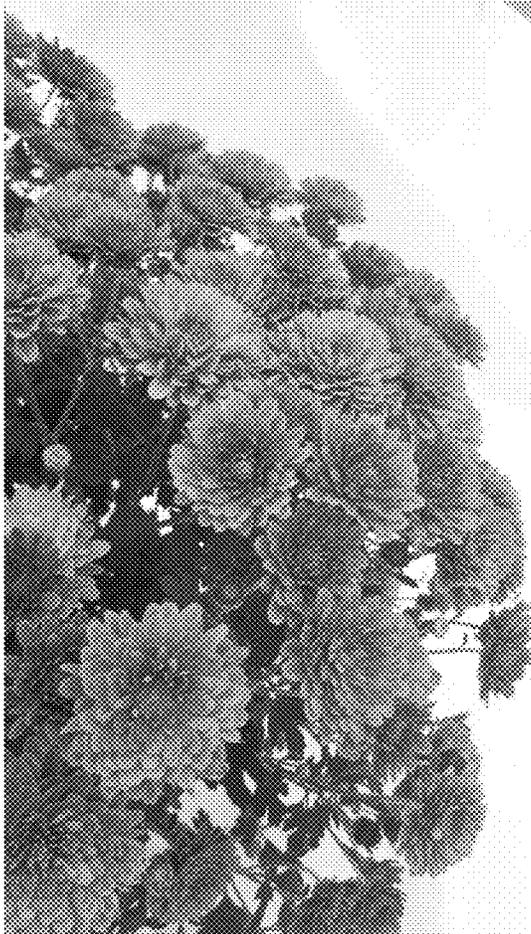


FIG. 1



FIG. 2