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Smith

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(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0106'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0106**

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patent is extended or adjusted under 35
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A01H 6/14 (2018.01)

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CPC **A01H 6/1424** (2018.05)

(58) **Field of Classification Search**
USPC Plt./295
CPC A01H 6/1424; A01H 5/02
See application file for complete search history.

(56) **References Cited**

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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0106' particularly distinguished by its medium to
large size plant with round plant habit, a medium size semi
double flower, and a natural season response in mid October.
Flowers start as bronze buds and open to rich yellow flower
color with bronze flower center.

1 Drawing Sheet

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

Varietal denomination: 'CIFZ0106'.

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 'CIFZ0106'.

'CIFZ0106' is a product of a planned breeding program.
The new cultivar has medium to large size plant with round
plant habit, a medium size semi double flower, and a natural
season response in mid October. Flowers start as bronze
buds and open to rich yellow flower color with bronze flower
center.

'CIFZ0106' originated from a cross made in November
2018 in Enkhuizen, The Netherlands. Seeds were sown in
June 2019 in Gilroy, California and 'CIFZ0106' was
selected from the resulting population on Nov. 25, 2019 in
Alva, Florida.

The female parent was 'Fichrysunfla', U.S. Plant Pat. No.
30,457.

TABLE 1

Characteristics of the female parent, compared to 'CIFZ0106':		
	'CIFZ0106'	'Fichrysunfla'
Natural response:	1 month slower	1 month faster
Blackcloth response:	½ week slower	½ week faster

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TABLE 1-continued

Characteristics of the female parent, compared to 'CIFZ0106':		
	'CIFZ0106'	'Fichrysunfla'
Flower size:	Similar	Similar
Flower color:	More yellow	More orange
Flower type:	Similar	Similar
Plant size:	Larger	Smaller
Plant habit:	Sphere	Mound
Flowering uniformity:	Similar	Similar

The male parent was an unnamed proprietary seedling
'FA0304', not patented.

TABLE 2

Characteristics of the male parent, compared to 'CIFZ0106':		
	'CIFZ0106'	'FA0304'
Natural response:	3 weeks slower	3 weeks faster
Flower size:	Bit larger	Bit smaller
Flower color:	Darker yellow and has bicolor flower center	Lighter yellow and no bicolor
Flower type:	Less disc florets	More disc florets
Plant size:	Taller	Shorter
Plant habit:	Sphere	Mound
Flowering uniformity:	Similar	Similar

The first act of asexual reproduction of 'CIFZ0106' was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in January 2020 in Alva,
Florida.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings of the plant initiated in January 2020 and continuing thereafter, has demonstrated that the combination of characteristics as herein disclosed for ‘CIFZ0106’ are firmly fixed and are retained through successive generations of asexual reproduction.

‘CIFZ0106’ has not been observed under all possible environmental conditions. The phenotype may vary significantly 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. ‘CIFZ0106’ has not been made publicly available 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 ‘CIFZ0106’ 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 ‘CIFZ0106’ 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 on Sep. 5, 2022 both showing a plant from the same blackcloth indoor 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 beginning of September 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 ‘CIFZ0106’ AND TWO MOST SIMILAR VARIETIES:		
	‘CIFZ0106’	‘CIFZ0090’, U.S. Plant Pat. No. 35,209
Natural response:	Similar	Similar
Blackcloth response:	1 week faster	1 week slower
Flower size:	Similar	Similar
Flower color:	Yellow with bicolor flower center	Bronze/orange with no bicolor
Flower type:	Similar	Similar
Plant size:	Larger	Smaller
Plant habit:	Similar	Similar

TABLE 4

	‘CIFZ0106’	‘G21VIG05DY’, U.S. Plant Pat. No. 33,813
5	Natural response:	1 week faster
	Flower size:	Bit larger
	Flower color:	More yellow and has bicolor flower center
10	Flower type:	Similar
	Plant size:	Similar
	Plant habit:	Similar
	Plant strength:	Sturdier/less splitting
15	Foliage:	Similar
	Flowering uniformity:	Similar
Plant:		
	<i>Form, growth and habit.</i> —Herbaceous garden-type, stems Upright and outwardly spreading, freely branching, rather strong to moderately vigorous growth habit.	
20	<i>Plant height (above soil).</i> —25 cm.	
	<i>Plant height (inflorescence included).</i> —27 cm.	
	<i>Plant width.</i> —45 cm.	
25	Roots:	
	<i>Number of days to initiate roots.</i> —About 4 days at about 22° C.	
	<i>Number of days to produce a rooted cutting.</i> —14-16 days at 22° C.	
30	<i>Type.</i> —Fine, fibrous, free branching.	
	<i>Color.</i> —RHS N155B.	
	Foliage:	
	<i>Arrangement.</i> —Alternate.	
	<i>Immature leaf, color upper surface.</i> —RHS 147A.	
35	<i>Immature leaf, color lower surface.</i> —RHS 147B.	
	<i>Mature leaf, color, upper surface.</i> —RHS 137A.	
	<i>Mature leaf, color lower surface.</i> —RHS 137B.	
	<i>Length.</i> —4.0 cm.	
	<i>Width.</i> —2.4 cm.	
40	<i>Shape.</i> —Ovate, with distinct lobes.	
	<i>Base shape.</i> —Shortly Attenuate.	
	<i>Apex shape.</i> —apiculate.	
	<i>Margin.</i> —5 lobed.	
	<i>Number of margin indentations.</i> —8-10.	
45	<i>Depth of margin indentations.</i> —2-4 mm.	
	<i>Leaf length terminal lobe relative to total leaf length.</i> —1:3.2.	
	<i>Leaf depth lower lateral sinus.</i> —0.8 cm.	
	<i>Texture, upper surface.</i> —Bifid hairs.	
	<i>Texture, lower surface.</i> —Bifid hairs.	
50	<i>Color of veins, upper surface.</i> —RHS 137B.	
	<i>Color of veins, lower surface.</i> —RHS 137C.	
	<i>Pattern of veining.</i> —Palmate.	
	<i>Petiole color.</i> —RHS 137C.	
	<i>Petiole length.</i> —1.0-1.4 cm.	
	<i>Diameter.</i> —0.3 cm.	
	<i>Texture.</i> —Bifid hairs.	
	<i>Presence of stipules.</i> —No.	
	Stem:	
60	<i>Quantity of main branches per plant.</i> —8-10.	
	<i>Color of stem.</i> —RHS 138A with longitudinal stripes RHS 138D.	
	<i>Length of stem.</i> —11.0-12.0 cm.	
	<i>Diameter.</i> —0.4 cm.	
65	<i>Length of internodes.</i> —1.0-2.0 cm.	
	<i>Texture.</i> —Bifid hairs.	

- Color of peduncle.*—RHS 137D.
Length of peduncle.—3.0-4.0 cm.
Peduncle diameter.—0.2 cm.
Texture.—Bifid hairs.
- Inflorescence:
Type.—Compositae, solitary, duplex 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 7.5 weeks.
Quantity of inflorescences per plant.—90-120 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 14B.
Length.—0.8 cm.
Width.—0.6 cm.
Shape.—Oblate.
- Immature inflorescence (at moment of opening):
Diameter.—2.5 cm.
Color of ray florets, upper surface.—RHS 14A.
Color of ray florets, lower surface.—RHS 12B.
- Mature inflorescence:
Diameter.—3.7 cm.
Depth.—1.5 cm.
Total diameter of disc.—0.3-0.5 cm.
Receptacle color.—RHS 138A.
Receptacle height.—0.6 cm.
Receptacle diameter.—1.0 cm.
Length of corolla tube.—0.3-0.4 cm.
- Ray florets:
Average quantity of florets.—90-110.
Color of florets, upper surface.—RHS 14A.
Color lower surface.—RHS 14B.
Length.—1.5 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 weakly involute.
Texture, upper surface.—Papillate.
Lower surface.—Papillate.
Ribs present.—Yes.
Number of keels.—2.
Profile at widest point.—Moderately concave.
Longitudinal axis shape.—Reflexing.

- Longitudinal axis curvature strength.*—Medium.
Corolla tube shape.—Circular.
- Disc florets:
Number of disc florets.—40-65.
Width.—0.1 cm.
Length.—1.0 cm.
Color.—RHS 14A.
- Inflorescence (at moment of senescence):
Color of ray florets, upper surface.—RHS 14A.
Color of ray florets, lower surface.—RHS 12C.
- Phyllaries:
Quantity.—16-18.
Color, upper surface.—RHS 138A.
Color, lower surface.—RHS 137A.
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 5B.
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 157D.
Length filaments.—0.2 cm.
Anther color.—RHS 9A.
Anther length.—0.2 cm.
Anther shape.—Oval to club shaped.
Color of pollen.—RHS 9A.
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 'CIFZ0106' substantially as illustrated and described herein.



FIG. 1



FIG. 2