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Smith

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(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0105'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0105**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
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(58) **Field of Classification Search**
USPC **Plt./287, 290**
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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0105' particularly distinguished by its medium to
large size plant with round plant habit, a large size quilled
decorative with bronze-yellow bicolor flower color, and a
natural season response in 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: 'CIFZ0105'.

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 'CIFZ0105'.

'CIFZ0105' is a product of a planned breeding program.
The new cultivar has a medium to large size plant with round
plant habit, a large size quilled decorative flower with
bronze-yellow bicolor flower color, and a natural season
response in mid to late September

'CIFZ0105' originated from a cross made in November
2018 in Enkhuizen, The Netherlands. Seeds were sown in
June 2019 in Gilroy, Calif. and 'CIFZ0105' was selected
from the resulting population on Nov. 4, 2019 in Alva, Fla.

The female parent was an unnamed proprietary seedling
'FB0101', not patented.

TABLE 1

Characteristics of the female parent, compared to 'CIFZ0105':		
	'CIFZ0105'	'FB0101'
Natural response:	½ week slower	½ week faster
Blackcloth response:	Similar	Similar
Flower size:	Bit larger	Bit smaller
Flower color:	Orange/Golden Bronze	Red
Flower type:	Similar	Similar
Plant size:	Similar	Similar
Plant habit:	Similar	Similar
Flower longevity:	Flowers last but color fades	Flowers and color hold up
Plant strength:	Similar	Similar
Flowering uniformity:	Similar	Similar

The male parent was an unnamed proprietary seedling
'FB0049', not patented.

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TABLE 2

Characteristics of the male parent, compared to 'CIFZ0105':		
	'CIFZ0105'	'FB0049'
Natural response:	1+ week faster	1+ week slower
Blackcloth response:	2 days faster	2 days slower
Flower size:	Similar	Similar
Flower color:	Similar	Similar
Flower type:	Less disc florets	More disc florets
Plant size:	Similar	Similar
Plant habit:	Similar	Similar
Flower longevity:	Similar	Similar
Plant strength:	Softer	Stiffer
Flowering uniformity:	Similar	Similar

The first act of asexual reproduction of 'CIFZ0105' was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in January 2020 in Alva, Fla.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings
of the plant initiated in January 2020 and continuing there-
after, has demonstrated that the combination of characteris-
tics as herein disclosed for 'CIFZ0105' are firmly fixed and
are retained through successive generations of asexual
reproduction.

'CIFZ0105' 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. 'CIFZ0105' 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
'CIFZ0105' 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 ‘CIFZ0105’ with colors being as true as possible with an illustration of this type.

The photographic drawings 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 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 ‘CIFZ0105’ AND TWO MOST SIMILAR VARIETIES:		
	‘CIFZ0105’	‘CIFZ0032’, U.S. Plant Pat. No. 28,319
Natural response:	Approximately 1 week faster	Approximately 1 week slower
Blackcloth response:	½ week faster	½ week slower
Flower size:	Bit smaller	Bit larger
Flower color:	Darker bud color and more bicolor effect once flowers open	Lighter bud color and less bicolor effect once flowers open
Flower type:	Similar	Similar
Plant size:	Less width	More width
Plant habit:	Less round/more oval	Rounder
Flower longevity:	More fade/20% less longevity	Less fade/20% more longevity
Flowering uniformity:	Less uniform	More uniform

TABLE 4

	CIFZ0105	‘PPP RHN 07’, U.S. Plant Pat. No. 20,395
Natural response:	Almost 1 week faster	Almost 1 week slower
Blackcloth response:	Unknown	Unknown
Flower size:	Smaller	Larger
Flower color:	Similar	Similar
Flower type:	Similar	Similar
Plant size:	Larger overall	Smaller overall
Plant habit:	Taller than width	Similar height to width
Plant strength:	Sturdier/less splitting	Weaker/more splitting
Foliage:	Similar	Similar
Flowering uniformity:	Similar	Similar

Plant:

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

Plant height (above soil).—28 cm.

Plant height (inflorescence included).—32 cm.

Plant width.—52 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 147B.

Mature leaf, color, upper surface.—RHS 137A.

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

Length.—4.8 cm.

Width.—3.2 cm.

Shape.—Ovate, with distinct lobes.

Base shape.—Shortly Attenuate.

Apex shape.—Acute.

Margin.—5 lobed.

Number of margin indentations.—11-14.

Depth of margin indentations.—2-3 mm.

Leaf length terminal lobe relative to total leaf length.—1:2.8.

Leaf depth lower lateral sinus.—1.2 cm.

Texture, upper surface.—Bifid hairs.

Texture, lower surface.—Bifid hairs.

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

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

Pattern of veining.—Palmate.

Petiole color.—RHS 137C.

Petiole length.—1.4-1.8 cm.

Diameter.—0.3 cm.

Texture.—Bifid hairs.

Presence of stipules.—Yes.

If present, size of stipules.—3×2 mm.

Colour of stipule.—RHS 137A.

Stem:

Quantity of main branches per plant.—6-7.

Color of stem.—RHS 138A.

Length of stem.—14.0-15.0 cm.

Diameter.—0.4 cm.

Length of internodes.—0.8-1.5 cm.

Texture.—Bifid hairs.

Color of peduncle.—RHS 137D.

Length of peduncle.—3.5-4 cm.

Peduncle diameter.—0.2 cm.

Texture.—Bifid hairs.

Inflorescence:

Type.—Compositae, solitary, duplex to decorative type inflorescences borne terminally above foliage, quilled ray florets arranged in whorls on a capitulum giving a double to semi-double flower.

Quantity of short days to flowering (response time).—Approximately 6.5 weeks.

Quantity of inflorescences per plant.—90-120 with many small buds developing.

Lastingness of individual blooms on the plant.—About 6 weeks from first color.

Fragrance.—Slightly spicy.

- Bud (when showing color):
Color.—RHS 9A.
Length.—0.8 cm.
Width.—0.6 cm.
Shape.—Oblate.
- Immature inflorescence (at moment of opening):
Diameter.—3.0 cm.
Color of ray florets, upper surface.—RHS 17C inner whorls, RHS 26A outer.
Color of ray florets, lower surface.—RHS 13B.
- Mature inflorescence:
Diameter.—4.5 cm.
Depth.—2.5 cm.
Total diameter of disc.—0.2-0.5 cm.
Receptacle color.—RHS 148C.
Receptacle height.—0.5 cm.
Receptacle diameter.—0.8 cm.
Length of corolla tube.—1.4-1.6 cm.
- Ray florets:
Average quantity of florets.—140-150.
Color of florets, upper surface.—RHS N167B at apex, RHS 17B at base.
Color lower surface.—RHS 17B.
Length.—2.0 cm.
Width/diameter.—0.3 cm.
Shape.—Oblanceolate.
Apex shape.—Obtuse.
Base shape.—Tube.
Margin: entire.—Small incisions may be present at tip.
Margin: type of rolling.—Strongly involute.
Texture, upper surface.—Papillate.
Lower surface.—Papillate.
Ribs present.—No.
Number of keels.—0.
Profile at widest point.—Circular.
Longitudinal axis shape.—Straight.
Longitudinal axis curvature strength.—Medium.
Corolla tube shape.—Circular.
- Disc florets:
Number of disc florets.—24-50.
Width.—0.1 cm.
Length.—1.0 cm.
Color.—RHS 14A.

- Inflorescence (at moment of senescence):
Color of ray florets, upper surface.—RHS 26A.
Color of ray florets, lower surface.—RHS 13C.
- Phyllaries:
5 *Quantity*.—18-20.
Color, upper surface.—RHS 148C.
Color, lower surface.—RHS 148C.
Length.—0.8 cm.
Width.—0.2 cm.
10 *Shape*.—Lanceolate.
Apex shape.—Acute.
Base.—Fused.
Margins.—Entire.
Texture, upper surface.—Glabrous.
Texture, lower surface.—Canescent.
- 15 Reproductive organs:
Pistil.—One.
Length.—0.4 cm.
Style color.—RHS 5C.
Style length.—0.3 cm.
20 *Stigma color*.—RHS 5D.
Stigma shape.—Bi-parted.
Ovary color.—RHS 157C.
Ovary length.—0.2 cm.
25 *Ovary width*.—0.1 cm.
- Androecium:
Stamens.—1, found on only disc florets.
Color of filaments.—RHS 157D.
Length filaments.—0.2 cm.
30 *Anther color*.—RHS 15B.
Anther length.—0.2 cm.
Anther shape.—Oval to club shaped.
Color of pollen.—RHS 15B.
Pollen amount.—Moderate.
35 *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:
40 1. A new and distinct variety of *Chrysanthemum* plant named 'CIFZ0105' substantially as illustrated and described herein.

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FIG. 1

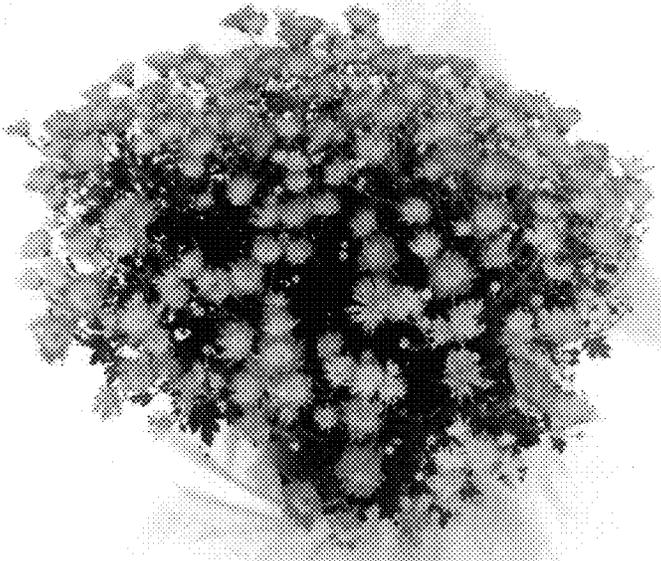


FIG. 2