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(54) *CHRYSANTHEMUM* PLANT NAMED
‘CIFZ0112’

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: CIFZ0112

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See application file for complete search history.

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(57) ABSTRACT

A new garden type *Chrysanthemum* plant named
‘CIFZ0112’ particularly distinguished by a medium size
plant with round plant habit, a medium size semi-decorative
flower with yellow flower color, and a natural season
response in 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: ‘CIFZ0112’.

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 ‘CIFZ0112’.

‘CIFZ0112’ is a product of a planned breeding program. The new cultivar has a medium size plant with round plant habit, a medium size semi-decorative flower with yellow flower color, and a natural season response in late September.

‘CIFZ0112’ originated from a cross made in October 2019 in Enkhuizen, The Netherlands. Seeds were sown in June 2020 in Alva, Florida and ‘CIFZ0112’ was selected from the resulting population on Nov. 5, 2020 in Alva, Florida.

The female parent was an unpatented proprietary seedling ‘FB0146’.

TABLE 1

Characteristics of the female parent, compared to ‘CIFZ0112’:		
Trait	‘CIFZ0112’	‘FB0146’
Natural response:	2 weeks faster	2 weeks slower
Blackcloth response:	1 week faster	1 week slower
Flower size:	Similar	Similar
Flower color:	Yellow	Pink/lavender
Flower type:	Similar	Similar
Plant size:	Smaller	Larger
Plant habit:	Similar	Similar

The male parent was ‘CIFZ0013’, U.S. Plant Pat. No. 25,878.

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TABLE 2

Characteristics of the male parent, compared to ‘CIFZ0112’:		
Trait	‘CIFZ0112’	‘CIFZ0013’, U.S. Plant Pat. No. 25,878
Natural response:	3 to 5 weeks slower (less so in the heat)	3 to 5 weeks faster (less so in the heat)
Blackcloth response:	Similar	Similar
Flower size:	Similar	Similar
Flowering uniformity:	More uniform	Less uniform
Flower color:	Similar	Similar
Flower type:	Similar	Similar
Plant size:	Larger	Smaller

The first act of asexual reproduction of ‘CIFZ0112’ was accomplished when vegetative stem cuttings were propagated from the initial selection in January 2021 in Alva, Florida.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings of the plant initiated in May 2020 and continuing thereafter, has demonstrated that the combination of characteristics as herein disclosed for ‘CIFZ0112’ are firmly fixed and are retained through successive generations of asexual reproduction.

‘CIFZ0112’ 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. ‘CIFZ0112’ 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 ‘CIFZ0112’ 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 drawing shows typical flower and foliage characteristics of ‘CIFZ0112’ 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 indoor trial.

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 Netherlands.

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 Netherlands, 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 (R.H.S.) 2001.

TABLE 3

DIFFERENCES BETWEEN THE NEW VARIETY ‘CIFZ0112’ AND TWO MOST SIMILAR VARIETIES:		
Trait	‘CIFZ0112’	‘Synwil Yel’, U.S. Plant Pat. No. 22,660
Natural response:	Similar	Similar
Blackcloth response:	¾ week faster	¾ week slower
Flower size:	Similar	Similar
Flower color:	Bit darker yellow	Bit lighter yellow
Flowering uniformity:	More uniform	Less uniform
Flower type:	Similar	Similar
Plant size:	Similar	Similar

TABLE 4

Trait	‘CIFZ0112’	‘YOHANKIE’, U.S. Plant Pat. No. 16,929
Natural response:	Similar but faster in the heat	Similar but slower in the heat
Blackcloth response:	At least 1.5 weeks faster	At least 1.5 weeks slower
Flower size:	Similar	Similar
Flower color:	Similar	Similar
Flower type:	Semi-decorative	Daisy
Plant size:	Smaller	Larger
Plant strength:	Stronger	Weaker

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).—15 cm.
Plant height (inflorescence included).—17 cm.
Plant width.—32 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 136A.
Immature leaf, color lower surface.—RHS 138A.
Mature leaf, color, upper surface.—RHS 139A.
Mature leaf, color lower surface.—RHS 137C.
Length.—6.0 cm.
Width.—3.5 cm.
Shape.—Ovate, with distinct lobes.
Base shape.—Attenuate.
Apex shape.—Acuminate.
Margin.—3 lobed.
Number of margin indentations.—18-21.
Depth of margin indentations.—2-4 mm.
Leaf length terminal lobe relative to total leaf length.—1:3.4.
Leaf depth lower lateral sinus.—1.7 cm.
Texture, upper surface.—Bifid hairs.
Texture, lower surface.—Bifid hairs.
Color of veins, upper surface.—RHS 137C.
Color of veins, lower surface.—RHS 137C.
Pattern of veining.—Palmate.
Petiole color.—RHS 137C.
Petiole length.—1.2 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 138B.
Length of stem.—11.0-13.0 cm.
Diameter.—0.3-0.4 cm.
Length of internodes.—1.0-1.5 cm.
Texture.—Bifid hairs.
Color of peduncle.—RHS 138C.
Length of peduncle.—1-2.5 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 6 weeks.
Quantity of inflorescences per plant.—About 260 with some 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 7A.
Length.—0.7 cm.
Width.—0.5 cm.
Shape.—Oblate.

Immature inflorescence (at moment of opening):

Diameter.—2.0 cm.
Color of ray florets, upper surface.—RHS 7A.
Color of ray florets, lower surface.—RHS 7B.

Mature inflorescence:

Diameter.—3-3.5 cm.*Depth.*—1.6 cm.*Total diameter of disc.*—0.8 cm.*Receptacle color.*—RHS 139A.*Receptacle height.*—1.0 cm.*Receptacle diameter.*—1.1 cm.*Length of corolla tube.*—No corolla tube present.

Ray florets:

Average quantity of florets.—70-90.*Color of florets, upper surface.*—RHS 12A.*Color lower surface.*—RHS 12C.*Length.*—1.4 cm.*Width/diameter.*—0.5 cm.*Shape.*—Elliptical.*Apex shape.*—Dentate.*Base shape.*—Moderately concave.*Margin.*—Entire. Small incisions may be present at tip.*Margin.*—Type of rolling — Moderately revolute.*Texture, upper surface.*—Papillate.*Lower surface.*—Papillate.*Ribs present.*—Yes.*Number of keels.*—2.*Profile at widest point.*—Strongly revolute.*Longitudinal axis shape.*—Almost straight.*Longitudinal axis curvature strength.*—Weak.*Corolla tube shape.*—No tube.

Disc florets:

Number of disc florets.—25.*Width.*—0.1 cm.*Length.*—0.3 cm.*Color.*—Base RHS 14A, top RHS 13A.

Inflorescence (at moment of senescence):

Color of ray florets, upper surface.—RHS 9A.*Color of ray florets, lower surface.*—RHS 12B.

Phyllaries:

Quantity.—26-30.*Color, upper surface.*—RHS 139A.*Color, lower surface.*—RHS 137C.*Length.*—0.4 cm.*Width.*—0.1 cm.*Shape.*—Lanceolate.5 *Apex shape.*—Acute.*Base.*—Fused.*Margins.*—Entire.*Texture, upper surface.*—Glabrous.*Texture, lower surface.*—Canescent.

10 Reproductive organs:

Pistil.—One.*Length.*—0.4 cm.*Style color.*—RHS 157C.*Style length.*—0.3 cm.15 *Stigma color.*—RHS 5C.*Stigma shape.*—Bi-parted.*Ovary color.*—RHS 157C.*Ovary length.*—0.2 cm.*Ovary width.*—0.1 cm.

20 Androecium:

Stamens.—1, found on only disc florets.*Color of filaments.*—RHS 1B.*Length filaments.*—0.2 cm.*Anther color.*—RHS 151C.25 *Anther length.*—0.2 cm.*Anther shape.*—Oval to club shaped.*Color of pollen.*—RHS 13B.*Pollen amount.*—Sparse.*Fertility/seed set.*—Has not been determined to date.30 *Disease/pest resistance.*—Has not been determined to date.*Hardiness.*—Has not been determined to date.

What is claimed is:

35 1. A new and distinct variety of *Chrysanthemum* plant named 'CIFZ0112' substantially as illustrated and described herein.

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FIG. 1

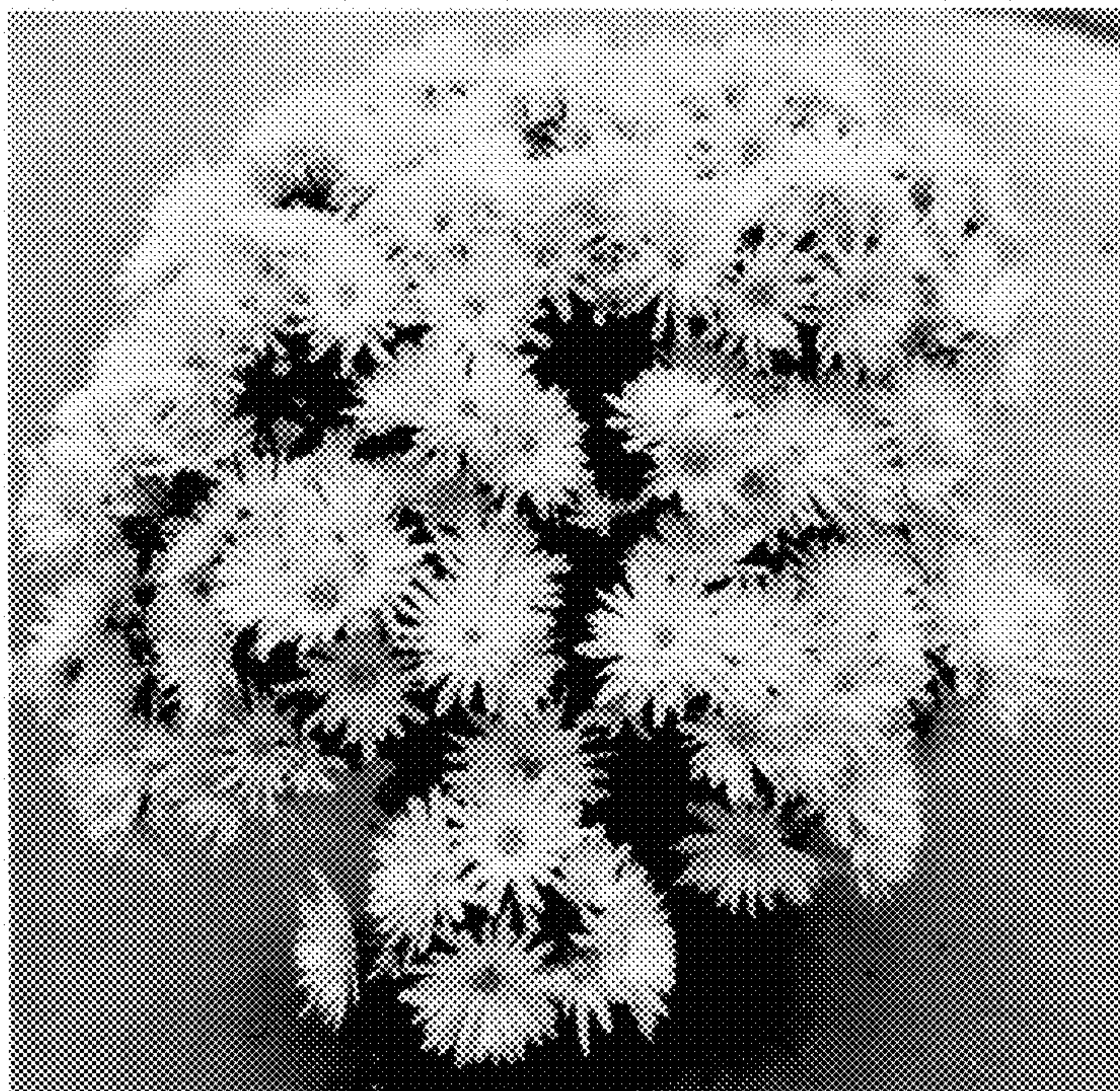


FIG. 2