



(12) **United States Plant Patent**
Kleinwee

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(54) **CHRYSANTHEMUM PLANT NAMED**
'CIFZ0079'

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0079**

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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./286, 287, 288**
See application file for complete search history.

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(57) **ABSTRACT**

A new garden type *Chrysanthemum* plant named
'CIFZ0079' particularly distinguished by its medium size
plant with round sphere plant habit, a medium size decora-
tive flower (1.75 inch), creamy white flower color with a
yellow colored center and a natural season response 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: 'CIFZ0079'.

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 'CIFZ0079'.

'CIFZ0079' is a product of a planned breeding program.
The new cultivar has a medium size plant with round sphere
plant habit, a medium size decorative flower (1.75 inch),
creamy white flower color with yellow center and a natural
season response in late September.

'CIFZ0079' originated from a cross made in October
2014 in Enkhuizen, The Netherlands. Seeds were sown in
June 2015 in Enkhuizen, The Netherlands and 'CIFZ0079'
was selected from the resulting population on October 2015
in Enkhuizen, The Netherlands.

The female parent was the variety 'GOLD CREST', U.S.
Plant Pat. No. 11,606.

TABLE 1

A COMPARISON OF THE FEMALE PARENT TO 'CIFZ0079':		
Trait	'CIFZ0079'	'GOLD CREST'
Natural response:	½ week slower	½ week faster
Blackcloth response:	Similar/bit slower	Similar/bit faster
Flower size:	Smaller	Larger
Flower color:	White with cream center	Yellow
Flower type:	Similar	Similar
Plant size:	Larger	Smaller
Plant habit:	Rounder	More upright

The male parent was 'Staviski Dark Pink', U.S. Plant Pat.
No. 21,901.

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TABLE 2

A COMPARISON OF THE MALE PARENT TO 'CIFZ0079':		
Trait	'CIFZ0079'	'Staviski Dark Pink'
Natural response:	4 weeks faster	4 weeks slower
Blackcloth response:	Similar	Similar
Flower size:	Larger	Smaller
Flower color:	White with cream center	Pink/lavender
Flower type:	Less disc florets	More disc florets
Plant size:	Taller/less width	Shorter/wider
Plant habit:	Similar	Similar

The first act of asexual reproduction of 'CIFZ0079' was
accomplished when vegetative cuttings were propagated
from the initial selection in January 2016 in Enkhuizen, The
Netherlands.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings
of the plant initiated in January 2016 and continuing there-
after, has demonstrated that the combination of characteris-
tics as herein disclosed for 'CIFZ0079' are firmly fixed and
are retained through successive generations of asexual
reproduction.

'CIFZ0079' 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. 'CIFZ0079' 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
'CIFZ0079' 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 'CIFZ0079' with colors being as true as possible with an illustration of this type.

The photographic drawing shows in FIG. 1 a close view of a 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 in September 2019 both showing a plant from the same black cloth indoor trial in Gilroy, Calif. These plants were about 10 weeks of age. One rooted cutting per pot had been planted in a one gallon pot, not pinched in week 24, and black clothed from week 25. Plants started flowering the end of August.

DETAILED BOTANICAL DESCRIPTION

The measurements were taken in Gilroy, Calif., in September 2019 on the plants from the aforementioned trial.

Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.) 2015.

TABLE 3

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0079' AND TWO MOST SIMILAR VARIETIES:		
Trait	'CIFZ0079'	'Yowilma', U.S. Plant Patent No. 18,924
Natural response:	1 week faster	1 week slower
Blackcloth response:	½ week slower	½ week faster
Flower size:	Bit smaller	Bit larger
Flower color:	White with distinct darker center	White with typical slight darker center
Flower type:	Similar	Similar
Plant size:	Smaller overall	Larger overall
Plant habit:	Rounder/more sphere	Mounded

TABLE 4

Trait	'CIFZ0079'	'Meridian White', Not patented
Natural response - North:	1 week slower	1 week faster
Natural response - South:	Similar	Similar
Blackcloth response:	Similar	Similar
Flower size:	Smaller	Larger
Flower color:	White with distinct darker center	White with typical slight darker center
Flower type:	Similar	Similar
Plant size:	Similar	Similar
Plant habit:	Similar	Similar
Flowering uniformity:	More Uniform	Less uniform

Plant:

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

Plant height (above soil).—14-16 cm.

Plant height (inflorescence included).—17-20 cm.

Plant width.—32-38 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 but whiter.

Foliage:

Arrangement.—Alternate.

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

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

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

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

Length.—4.2 cm.

Width.—3.5 cm.

Shape.—Ovate, with distinct lobes.

Base shape.—Attenuate.

Apex shape.—Mucronate.

Margin.—5-lobed (palmate), edge dentate.

Number of margin indentations.—Many.

Depth of margin indentations.—Shallow.

Leaf length terminal lobe relative to total leaf length.—Terminal lobe is ½ to ⅓ the length of the total leaf=Medium.

Leaf depth lower lateral sinus.—Shallow.

Texture, upper surface.—Bifid hairs.

Texture, lower surface.—Bifid hairs.

Color of veins, upper surface.—RHS 138B.

Color of veins, lower surface.—RHS 138A.

Pattern of veining.—Palmate.

Petiole color.—RHS 137A.

Petiole length.—1.5 cm.

Diameter.—0.4 cm.

Texture.—Bifid hairs.

Presence of stipules.—Yes.

If present, size of stipules.—Medium.

Stem:

Quantity of main branches per plant.—7.

Color of stem.—RHS 138A.

Length of stem.—8.0-9.0 cm.

Diameter.—1.0 cm.

Length of internodes.—1.5-3.0 cm.

Texture.—Bifid hairs.

Color of peduncle.—RHS 138A.

Length of peduncle.—3-7 cm.

Peduncle diameter.—0.3 cm.

Texture.—Bifid hairs.

Inflorescence:

Type.—Compositae, solitary, decorative-type inflorescences borne terminally above foliage, ligulate ray florets arranged acropetally on a capitulum giving a double flower.

Quantity of short days to flowering (response time).—Approximately 6 weeks.

Natural season flowering.—Late September.

Quantity of inflorescences per plant.—130-140 with many 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 9B, Tips are RHS 9D.

Length.—1.1 cm.

- Width.*—0.9 cm.
Shape.—Oblate.
- Immature inflorescence (at moment of opening):
Diameter.—2.4 cm.
Color of ray florets, upper surface.—RHS NN155A, 5
 with RHS 9A at center.
Color of ray florets, lower surface.—RHS NN155A,
 with RHS 9A at center.
- Mature inflorescence:
Diameter.—4.0 cm. 10
Depth.—1.5 cm.
Total diameter of disc.—0.3 cm to no disc present.
Receptacle color.—RHS NN155A, with RHS 9D at
 center.
Receptacle height.—0.3 cm. 15
Receptacle diameter.—0.5 cm.
Length of corolla tube.—Medium.
- Ray florets:
Average quantity of florets.—140-150 in several
 whorls. 20
Color of florets, upper surface (abaxial).—Exterior
 flowers with RHS NN155A, RHS 1B at base.
Color inner surface (adaxial).—Interior flowers RHS
 9C, RHS 1B at base. 25
Length.—1.5 cm.
Width/diameter.—0.4 cm.
Shape.—Elliptical.
Apex shape.—Mostly obtuse and dentate.
Base shape.—Tube.
Margin.—Entire. Small incisions may be present at tip. 30
Margin.—Type of rolling Moderately involute.
Texture, upper surface.—Papillate.
Lower surface.—Papillate.
Ribs present.—No.
Number of keels.—0. 35
- Disc florets:
Number of disc florets.—None present.
- Inflorescence (at moment of senescence):
Color of ray florets, upper surface.—RHS NN155A.
Color of ray florets, lower surface.—RHS NN155A. 40

- Phyllaries:
Quantity.—30-40.
Color, upper surface.—RHS 143C.
Color, lower surface.—RHS 143A.
Length.—0.7 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. 15
Style color.—RHS 150B.
Style length.—0.4 cm.
Stigma color.—RHS7D.
Stigma shape.—Bi-parted.
Ovary color.—RHS 145C. 20
Ovary length.—0.2 cm.
Ovary width.—0.1 cm.
- Androecium:
Stamens.—1, found on only disc florets.
Color of filaments.—RHS 2B. 25
Length filaments.—0.2 cm.
Anther color.—RHS 13A.
Anther length.—0.2 cm.
Anther shape.—Oval to club shaped.
Color of pollen.—RHS 13A. 30
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. 35
- What is claimed is:
 1. A new and distinct variety of *Chrysanthemum* plant
 named 'CIFZ0079' substantially as illustrated and described
 herein.

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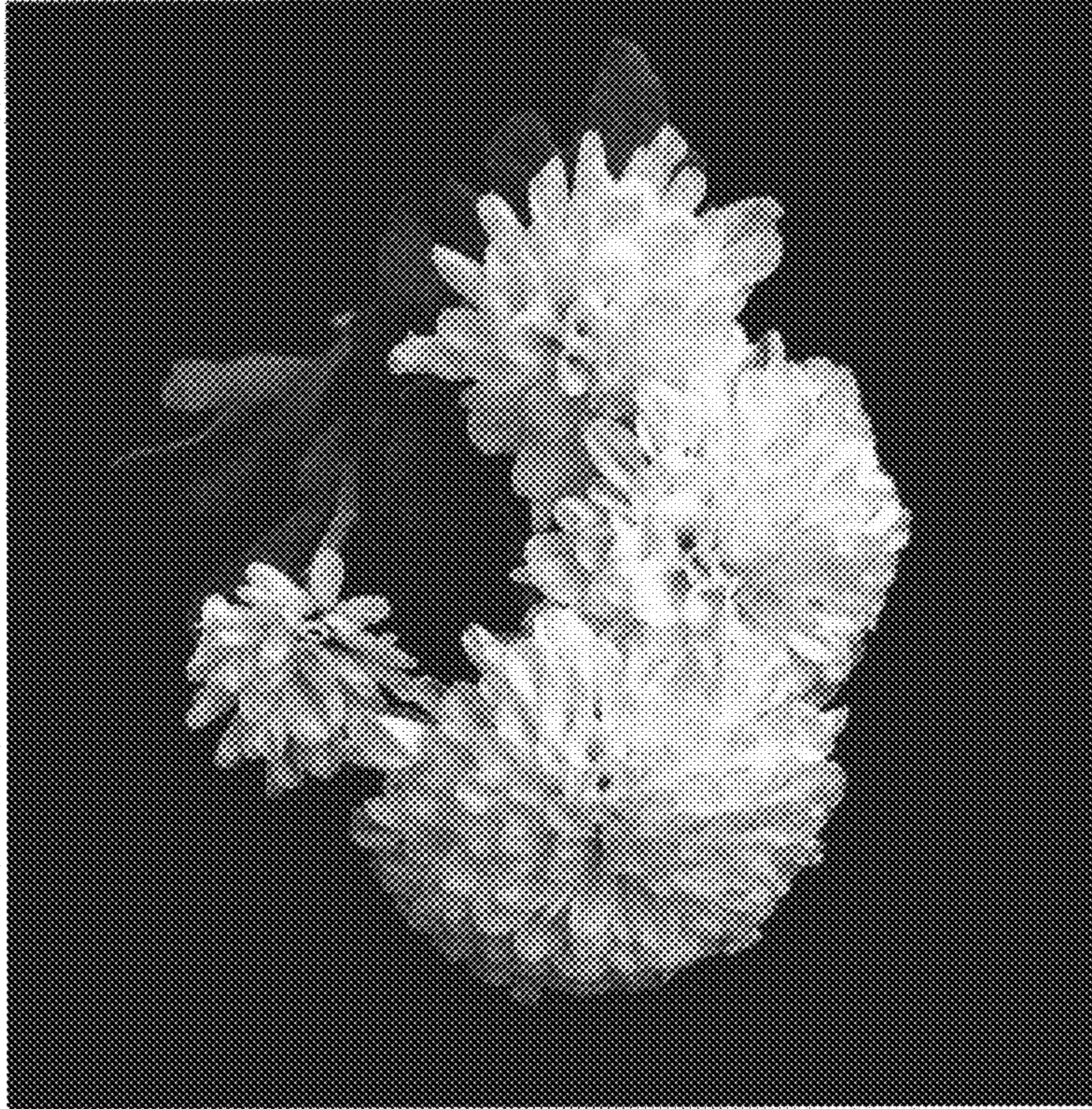


FIG. 1



FIG. 2