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Smith

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(54) **CHRYSANTHEMUM PLANT NAMED**
‘CIFZ0076’

(50) Latin Name: *Chrysanthemum x morifolium*
Varietal Denomination: **CIFZ0076**

(71) Applicant: **SYNGENTA CROP PROTECTION**
AG, Basel (CH)

(72) Inventor: **Mark A. Smith**, Alva, FL (US)

(73) Assignee: **Syngenta Crop Protection AG**, Basel
(CH)

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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A01H 6/14 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./289**
CPC **A01H 6/1424** (2018.05); **A01H 5/02**
(2013.01)

(58) **Field of Classification Search**
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CPC ... A01H 5/02; A01H 5/00; A01H 6/14; A01H
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See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
PP24,185 P2 * 1/2014 Pieters A01H 6/1424
Plt./295
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Plt./289

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Primary Examiner — June Hwu
(74) *Attorney, Agent, or Firm* — Dale Skalla

(57) **ABSTRACT**
A new garden type *Chrysanthemum* plant named
‘CIFZ0076’ particularly distinguished by its medium to
large size plant with very round plant habit, a medium size
decorative flower (2.0 inch), yellow flower color and a
natural season response 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: ‘CIFZ0076’.

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 ‘CIFZ0076’.
‘CIFZ0076’ is a product of a planned breeding program.
The new cultivar has medium to large size plant with very
round plant habit, a medium size decorative flower (1.75-2.0
inch), yellow flower color and a natural season response
mid-September.
‘CIFZ0076’ originated from a mutation of X-ray treated
cuttings in October 2016 in Gilroy, Calif. ‘CIFZ0076’ was
selected from the resulting plants on Apr. 7, 2017 in Gilroy,
Calif.
The female parent was the variety ‘CIFZ0049’, U.S. Plant
Pat. No. 30,028.

TABLE 1

A COMPARISON BETWEEN THE FEMALE PARENT AND ‘CIFZ0076’:		
Trait	‘CIFZ0076’	‘CIFZ0049’
Natural response:	Similar	Similar
Blackcloth response:	Similar	Similar
Flower size:	Similar	Similar
Flower color:	Yellow	Orange with slight two-tone

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TABLE 1-continued

A COMPARISON BETWEEN THE FEMALE PARENT AND ‘CIFZ0076’:		
Trait	‘CIFZ0076’	‘CIFZ0049’
Flower type:	Similar	Similar
Plant size:	Slightly larger	Slightly smaller
Plant habit:	Similar	Similar
Flower color longevity:	Holds color longer	Changes color faster

As the new variety is the result of mutation breeding,
there is not a male parent.
The first act of asexual reproduction of ‘CIFZ0076’ was
accomplished when vegetative stem cuttings were propa-
gated from the initial selection in May 2017 in Gilroy, Calif.

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 ‘CIFZ0076’ are firmly fixed and
are retained through successive generations of asexual
reproduction.
‘CIFZ0076’ 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. ‘CIFZ0076’ 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 'CIFZ0076' 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 'CIFZ0076' 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 outdoor trial.

The aforementioned photographs: FIG. 1, as well as FIG. 2, were taken in September 2019 both showing a plant from the same blackcloth 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 2

DIFFERENCES BETWEEN THE NEW VARIETY 'CIFZ0076' AND TWO MOST SIMILAR VARIETIES:		
Trait	'CIFZ0076'	'CIFZ0004', U.S. Plant Pat. No. 24,619
Natural response:	Couple days slower	Couple days faster
Blackcloth response:	Couple days slower	Couple days faster
Diameter, mature inflorescence:	3.5 cm	5-6.0 cm
Flower color:	Darker yellow	Lighter yellow
Flower type:	Similar	Similar
Plant height:	17-20 cm and 21-25 cm, inflorescence included	22-25 cm, and 27-29 cm, inflorescence included
Plant width:	38-40 cm	40-43 cm

TABLE 3

Trait	'CIFZ0076'	'Matador Yellow', U.S. Plant Pat. No. 24,185
Natural response:	Similar	Similar
Blackcloth response:	Similar	Similar
Flower color:	Yellow	Intense dark yellow
Flower type:	Similar	Similar
Plant height:	17-20 cm and 21-25 cm, inflorescence included	About 40 cm
Plant width:	38-40 cm	About 50 cm
Leaf edge:	Dentate	Serrate

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).—17-20 cm.

Plant height (inflorescence included).—21-25 cm.

Plant width.—38-40 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 137A.

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

Mature leaf, color, upper surface.—RHS 137A at top to RHS 137C at base.

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

Length.—4.6 cm.

Width.—2.5 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 1/2 the length of the total leaf=Long.

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 138B.

Pattern of veining.—Palmate.

Petiole color.—RHS 137A.

Petiole length.—1.8 cm.

Diameter.—0.2 cm.

Texture.—Bifid hairs.

Presence of stipules.—No.

Stem:

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

Color of stem.—RHS 143C and gets darker to RHS 138A.

Length of stem.—10.0-11.0 cm.

Diameter.—0.6 cm.

Length of internodes.—0.5-2.5 cm.

Texture.—Bifid hairs.

Color of peduncle.—RHS 138A.

Length of peduncle.—5.0 cm.

Peduncle diameter.—0.2 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 5 weeks.

Natural season flowering.—Mid-September.

Quantity of inflorescences per plant.—140-160 with many small buds developing.

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

Fragrance.—Slightly spicy.

Bud (when showing color):

Color.—RHS 12A.

Length.—1.0 cm.

Width.—0.8 cm.

Shape.—Oblate.

Immature inflorescence (at moment of opening):

Diameter.—3.0 cm.

Color of ray florets, upper surface.—RHS 6A.

Color of ray florets, lower surface.—RHS 6C.

Mature inflorescence:

Diameter.—3.5 cm.

Depth.—1.5 cm.

Total diameter of disc.—0.3 cm to no disc present.

Receptacle color.—RHS 16A.

Receptacle height.—0.6 cm.

Receptacle diameter.—3.0 cm.

Length of corolla tube.—Medium.

Ray florets:

Average quantity of florets.—140-160 in several whorls.

Color of florets, upper surface.—RHS 6A.

Color lower surface.—RHS 6C.

Length.—1.4-1.8 cm

Width/diameter.—0.5 cm

Shape.—Elliptical

Ray floret profile in cross section at widest point.—

Petals are weakly concave to start and open to become flat.

Curvature of the ray floret.—Petals are straight.

Apex shape.—Mostly obtuse and 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.—No.

Number of keels.—0.

Disc florets:

Number of disc florets.—Up to 200, may not be present in all flowers.

Width.—Up to 0.5 cm.

Length.—3.0 cm.

Color.—RHS 16A; RHS 144B at base.

Inflorescence (at moment of senescence):

Color of ray florets, upper surface.—Outer layers; RHS 6A with RHS N144B.

Color of ray florets, lower surface.—RHS 6C with RHS N144B.

Phyllaries:

Quantity.—25-30.

Color, upper surface.—RHS 143C.

Color, lower surface.—RHS 143A.

Length.—0.2 cm.

Width.—0.1-0.2 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 150B.

Style length.—0.4 cm.

Stigma color.—RHS 7D.

Stigma shape.—Bi-parted.

Ovary color.—RHS 145C.

Ovary length.—0.2 cm.

Ovary width.—0.1 cm.

Androecium:

Stamens.—1, found on only disc florets.

Color of filaments.—RHS 2B.

Length filaments.—0.2 cm.

Anther color.—RHS 13B.

Anther length.—0.2 cm.

Anther shape.—Oval to club shaped.

Color of pollen.—RHS 13A.

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 'CIFZ0076' substantially as illustrated and described herein.

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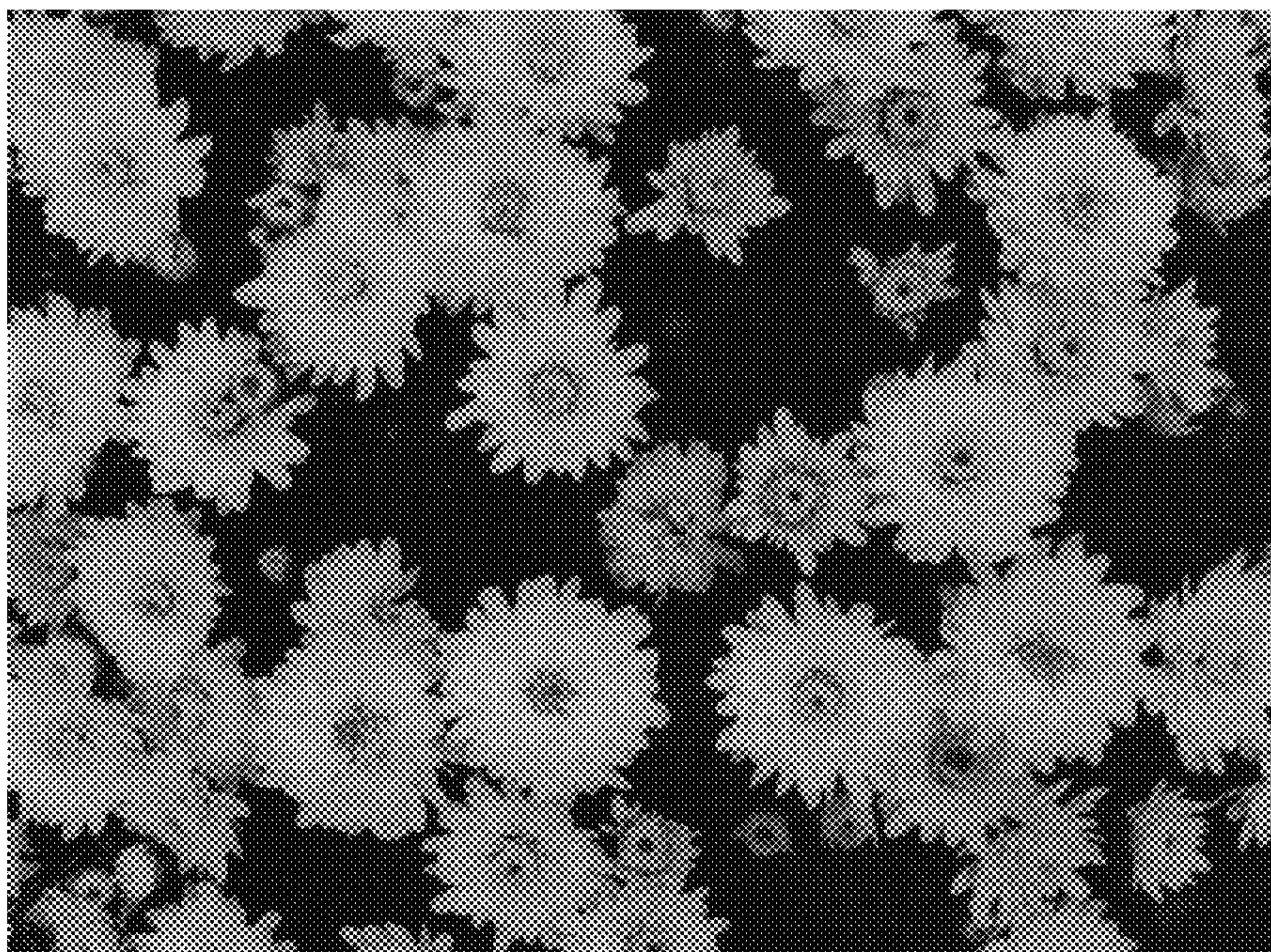


FIG. 1

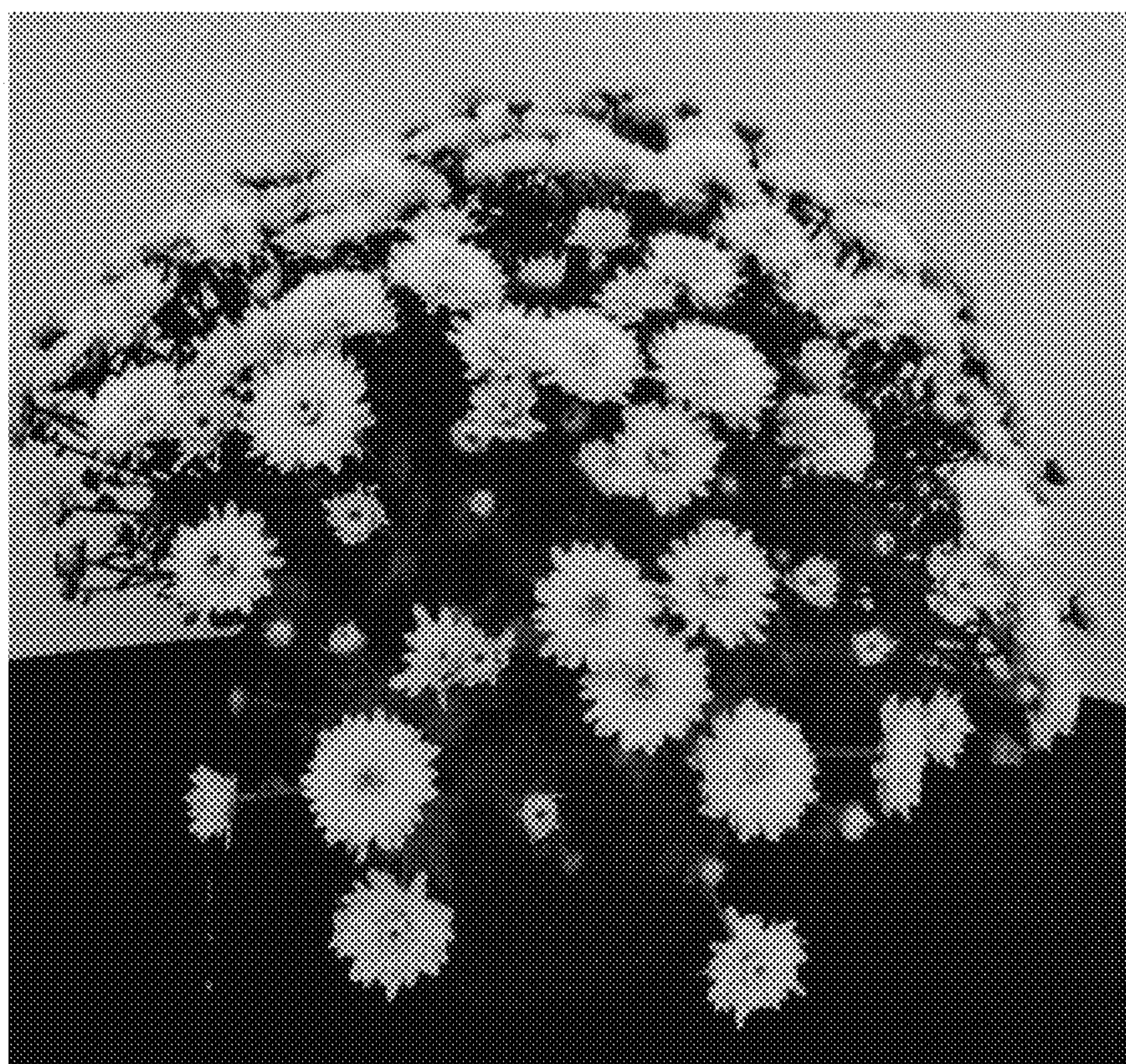


FIG. 2