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

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(54) *ARGYRANTHEMUM* PLANT NAMED
'BONMADCREL'

(51) **Int. Cl.**
A01H 5/00 (2006.01)

(50) Latin Name: *Argyranthemum*×*hybrida*
Varietal Denomination: **Bonmadcrel**

(52) **U.S. Cl.** **Plt./263**

(58) **Field of Classification Search** **Plt./263**
See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 17 days.

(57) **ABSTRACT**

A new and distinct cultivar of *Argyranthemum* plant named
'Bonmadcrel', characterized by its semi-double type yellow-
colored flowers, medium green-colored foliage, and moder-
ately vigorous, compact, and upright-mounded growth habit.

(21) Appl. No.: **11/601,164**

1 Drawing Sheet

(22) Filed: **Nov. 17, 2006**

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Latin name of genus and species of plant claimed: *Argyranthemum*×*hybrida*.

Variety denomination: 'Bonmadcrel'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Argyranthemum* plant botanically known as
Argyranthemum×*hybrida* and hereinafter referred to by the
cultivar name 'Bonmadcrel'.

The new cultivar originated in a controlled breeding
program in Yellow Rock, New South Wales, Australia
during September 2003. The objective of the breeding
program was the development of *Argyranthemum* cultivars
that are freely flowering with unique flower coloration and
a freely branching, compact, and upright growth habit.

The new *Argyranthemum* cultivar is the result of cross-
pollination. The female (seed) parent of the new cultivar is
the proprietary *Argyranthemum*×*hybrida* breeding selection
designated 02-150, not patented, characterized by its semi-
double type white-colored flowers, medium green-colored
foliage, and mounded-upright growth habit. The male
(pollen) parent of the new cultivar is the proprietary
Argyranthemum×*hybrida* breeding selection designated
03-12, not patented, characterized by its single type dark
yellow-colored flowers, grey-green-colored foliage, and
open, uneven growth habit. The new cultivar was discovered
and selected as a single flowering plant within the progeny
of the above stated cross-pollination during May 2004 in a
controlled environment at Yellow Rock, New South Wales,
Australia.

Asexual reproduction of the new cultivar by terminal stem
cuttings since May 2004 at Yellow Rock, New South Wales,
Australia and West Chicago, Ill. has demonstrated that the
new cultivar reproduces true to type with all of the
characteristics, as herein described, firmly fixed and retained
through successive generations of such asexual propagation.

SUMMARY OF THE INVENTION

The following characteristics of the new cultivar have
been repeatedly observed and can be used to distinguish

'Bonmadcrel' as a new and distinct cultivar of *Argyranthemum*
plant:

1. Semi-double type yellow-colored flowers;
2. Medium green-colored foliage; and
3. Moderately vigorous, compact, and upright-mounded
growth habit.

Plants of the new cultivar differ from plants of the female
parent primarily in flower color and growth habit and from
plants of the male parent primarily in flower form, leaf color,
and growth habit.

Of the many commercially available *Argyranthemum*
cultivars known to the inventor, the most similar in com-
parison to the new cultivar is 'Butterfly', not-patented.
However, in side by side comparisons, plants of the new
cultivar differ from plants of 'Butterfly' in the following
characteristics:

1. Plants of the new cultivar are shorter than plants of
'Butterfly'; and
2. Plants of the new cultivar have smaller inflorescences
than plants of 'Butterfly'.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs show, as nearly true as it
is reasonably possible to make the same in color illustrations
of this type, typical flower and foliage characteristics of the
new cultivar. Colors in the photographs differ slightly from
the color values cited in the detailed description, which
accurately describes the colors of 'Bonmadcrel'. The plants
were grown in 4.5 inch pots for 8 weeks in a greenhouse at
West Chicago, Ill.

FIG. 1 illustrates a side view of the overall growth and
flowering habit of 'Bonmadcrel'.

FIG. 2 illustrates a close-up view of an individual inflo-
rescence of 'Bonmadcrel'.

DETAILED BOTANICAL DESCRIPTION

The new cultivar has not been observed under all possible
environmental conditions to date. Accordingly, it is possible
that the phenotype may vary somewhat with variations in the

environment, such as temperature, light intensity, and day length, without, however, any variance in genotype.

The chart used in the identification of colors described herein is The R.H.S. Colour Chart of The Royal Horticultural Society, London, England, 2001 edition, except where general color terms of ordinary significance are used. The color values were determined on May 15, 2006 between 9:00 a.m. and 11:00 a.m. under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe plants produced from cuttings taken from stock plants and grown in a glass-covered greenhouse under conditions comparable to those used in commercial practice. The plants were grown at West Chicago, Ill. in 4.5 inch pots for 8 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 70° F. to 77° F. (21° C. to 25° C.) during the day and approximately 65° F. to 68° F. (18° C. to 20° C.) during the night. Greenhouse light levels of 2,500 footcandles to 6,000 footcandles were maintained during the day.

Botanical classification: *Argyranthemum*×*hybrida* cultivar Bonmadcrel.

Parentage:

Female parent.—Proprietary *Argyranthemum*×*hybrida* breeding selection designated 02-150, not patented.

Male parent.—Proprietary *Argyranthemum*×*hybrida* breeding selection designated 03-12, not patented.

Propagation:

Type cutting.—Terminal stem.

Time to initiate roots.—Approximately 6 to 8 days.

Time to produce a rooted cutting.—Approximately 21 to 28 days.

Root description.—Fibrous.

Rooting habit.—Freely branching.

Plant description:

Crop time.—Approximately 6 to 9 weeks from a rooted cutting.

Growth habit and general appearance.—Moderately vigorous, compact, and upright-mounded.

Size.—Height from soil level to top of plant plane: Approximately 24.6 cm. Width: Approximately 27.8 cm.

Branching habit.—Freely branching. Quantity of main branches per plant: Approximately 13.

Branch.—Strength: Strong. Length from soil level to base of peduncle: Approximately 15 cm. Diameter: Approximately 5.0 mm. Length of central internode: Approximately 1.5 cm. Texture: Glabrous. Color of young stem: Glauous, 144C. Color of mature stem: Glauous, 144C with a woody base of 199C.

Foliage description:

General description.—Quantity of leaves per main branch: Approximately 20. Fragrance: Slight. Form: Simple. Arrangement: Alternate.

Leaves.—Aspect: Acute angle to stem; leaf blade obtuse angle to stem with age. Shape: Obovate. Margin: Parted. Apex: Acute, cuspidate. Base: Attenuate, decurrent. Venation pattern: Pinnate. Length of mature leaf: Approximately 6.3 cm. Width of mature leaf: Approximately 4.6 cm. Texture of upper and lower surfaces: Glabrous with sparsely pubescent midvein. Color of upper surface of young and mature foliage: Glauous, 137A with venation of 146D. Color of lower surface of young and mature foliage: 137C with venation of 146D.

Flowering description:

Flowering habit.—‘Bonmadcrel’ is freely flowering under outdoor growing conditions with substantially continuous blooming from spring through autumn and year-round in greenhouse environment.

Lastingness of individual inflorescence on the plant.—Approximately 13 to 14 days.

Inflorescence description:

General description.—Type: Solitary, composite. Persistent. Shape: Round. Aspect: Facing upward and outward. Arrangement: Terminal, positioned above the foliage. Disc and ray florets develop acropetally on a capitulum. Average quantity per plant: Approximately 16. Diameter: Approximately 3.7 cm. Fragrance: None.

Peduncle.—Strength: Strong, pliable. Aspect: Erect. Length: Approximately 6.3 cm. Diameter: Approximately 2.0 mm. Texture: Sparsely pubescent. Color: 144A.

Bud.—Rate of opening: Generally takes 5 to 6 days for bud to progress from first color to fully open flower. Average quantity per plant: Approximately 12.

Bud just before opening.—Shape: Ovoid. Diameter: Approximately 8.0 mm. Color: 161C.

Ray florets.—Quantity per inflorescence: Approximately 35. Arrangement: Imbricate in two whorls. Aspect: Slightly convex, turning downward with age. Shape: Ligulate. Margin: Entire. Apex: Emarginate with 3 tips. Base: Attenuate, fused to form a tube. Length: Approximately 1.5 cm. Width: Approximately 4.0 mm. Texture of upper surface: Glabrous. Texture of lower surface: Glabrous, ribbed. Color of upper surface when first open: 4A. Color of lower surface when first and fully open: 4D. Color of upper surface when fully open: 4B.

Disc florets.—Quantity per inflorescence: Approximately 195. Arrangement: Massed in center of inflorescence. Shape: Tubular with 5 lobes. Margin: Entire. Apex: Acute. Base: Truncate. Length: Approximately 9.6 mm. Diameter at apex: Approximately 3.0 mm. Diameter at base: Approximately 1.0 mm. Texture: Glabrous with glandular pubescence on lower half. Gland color: Colorless. Color when fully open: 9A transitioning to base of 144D.

Disc.—Diameter: Approximately 2.4 cm. Depth: Approximately 6.0 mm.

Receptacle.—Shape: Cone. Height: Approximately 4.0 mm. Diameter at base: Approximately 6.0 mm. Color: 145B.

Phyllaries.—Quantity per inflorescence: Approximately 26. Arrangement: Imbricate, in several whorls. Shape: Lanceolate. Margin: Entire. Apex: Acute. Base: Truncate. Length: Approximately 5.2 mm. Width: Approximately 2.7 mm. Texture of upper and lower surfaces: Glabrous, papery along edges. Color of upper surface: 143A in center with transparent margins of N199B. Color of lower surface: Closest to 143C in center with transparent margins of N199B.

Reproductive organs.—Androecium: Present on disc florets only. Stamen quantity: 5 per floret. Stamen length: Approximately 4.0 mm. Anther shape: Linear. Anther length: Approximately 1.0 mm. Anther color: 21B. Pollen amount: None observed. Gynoecium: Present on ray and disc florets. Pistil quantity: 1 per floret. Pistil length: Approximately 6.0 mm. Stigma shape: Two-parted. Stigma length: Less than

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1 mm. Stigma color: 9B. Style length: Approximately 4.0 mm. Style color: 9C, transparent. Ovary length: Approximately 2.0 mm. Ovary color: 145D. Seed and fruit production: Neither seed nor fruit production has been observed. Disease and pest resistance: Resistance to pathogens and pests common to *Argyranthemum* has not been observed.

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What is claimed is:

1. A new and distinct cultivar of *Argyranthemum* plant named 'Bonmadcrel', substantially as herein shown and described.

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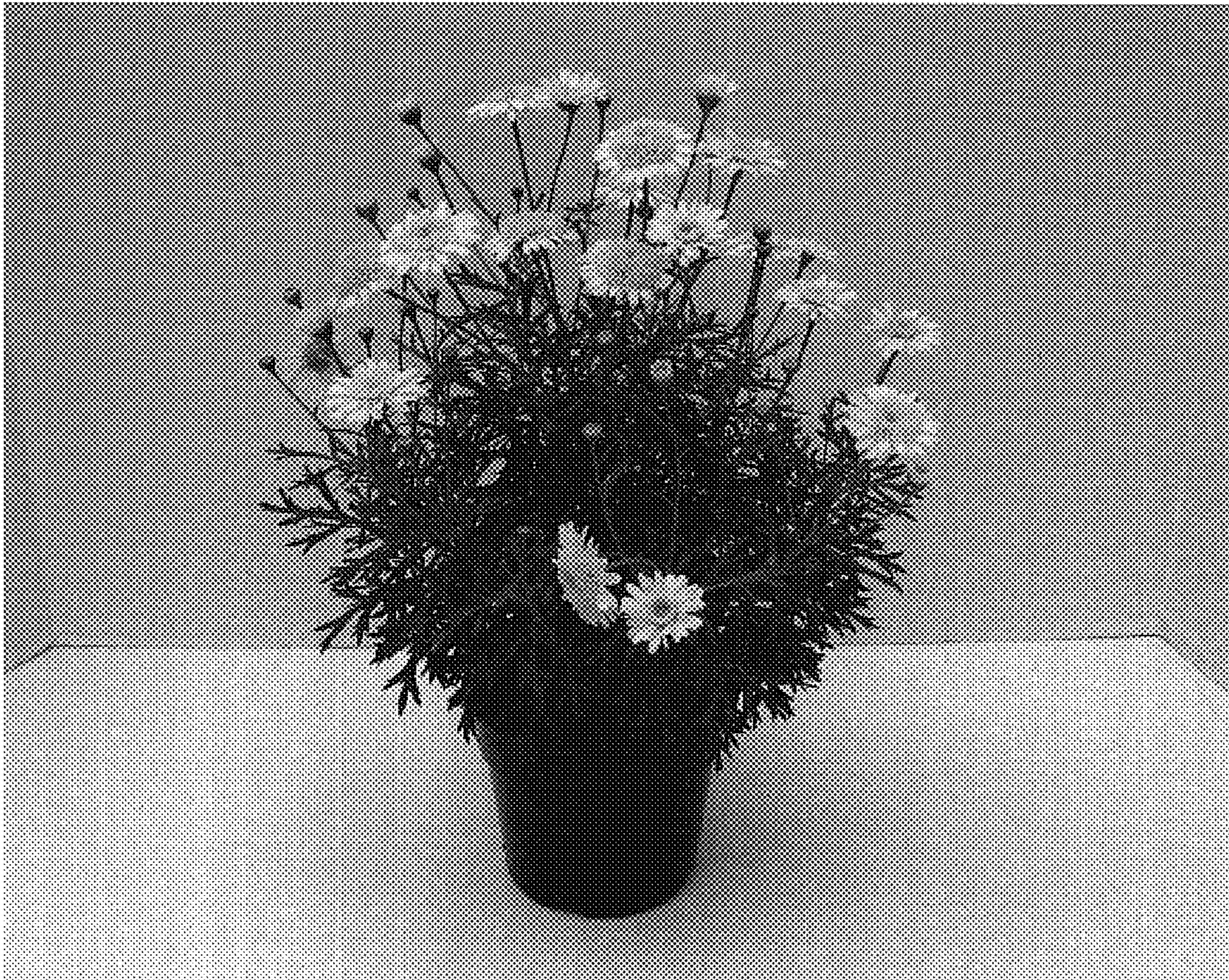


FIG. 1

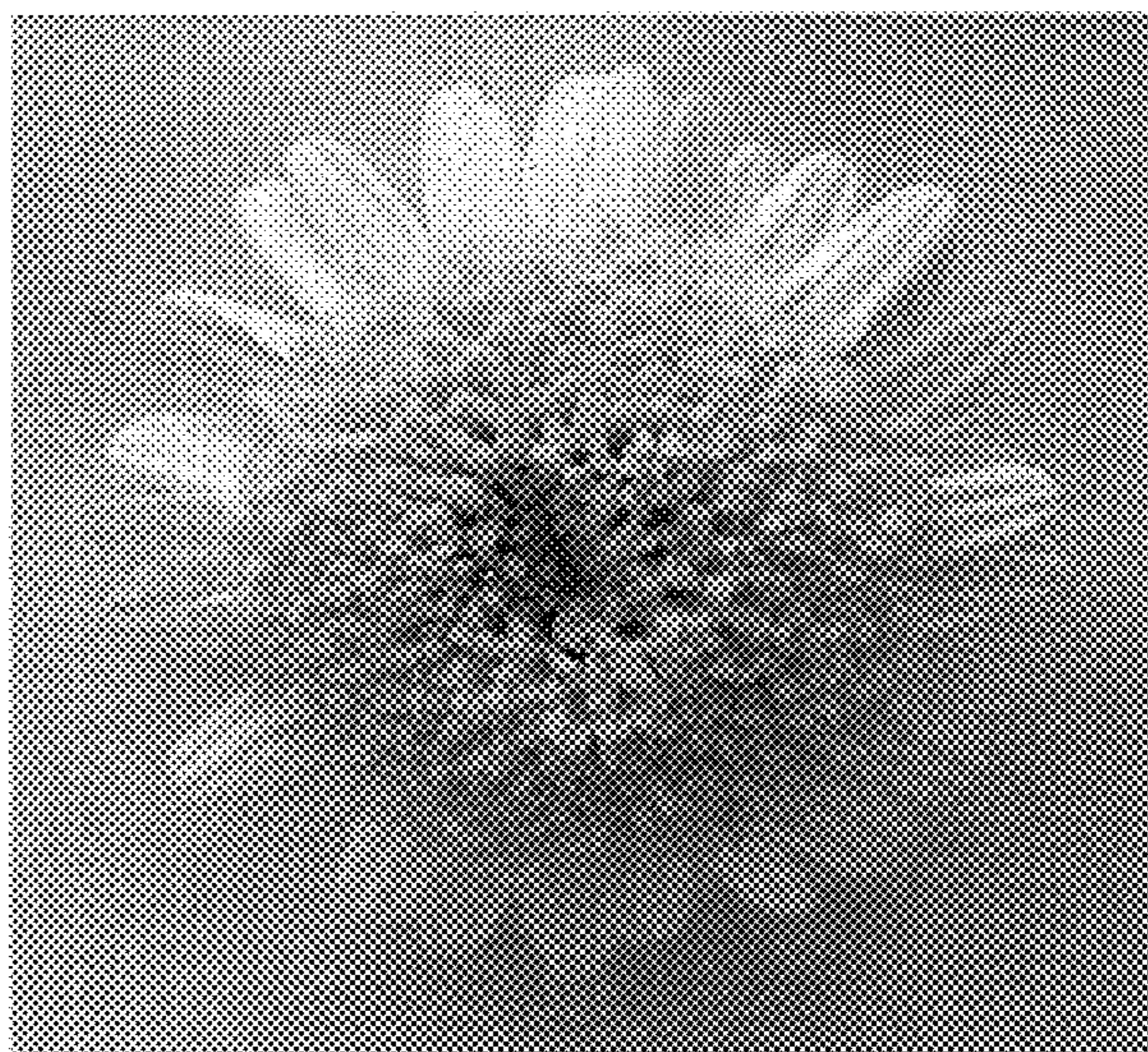


FIG. 2