

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

(10) **Patent No.:** **US PP18,565 P2**
(45) **Date of Patent:** **Mar. 4, 2008**

(54) **ARGYRANTHEMUM PLANT NAMED**
'BONMADEPI'

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

(75) Inventor: **Andrew Bernuetz**, Silverdale (AU)

(73) Assignee: **Bonza Botanicals Pty., Ltd.**, Sydney
(AU)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **11/601,167**

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

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

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

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

Primary Examiner—Kent Bell

Assistant Examiner—June Hwu

(74) *Attorney, Agent, or Firm*—Audrey Charles

(57) **ABSTRACT**

A new and distinct cultivar of *Argyranthemum* plant named
'Bonmadepi', characterized by its single type lavender pink-
colored flowers, medium green-colored foliage; and
vigorous, compact, and upright-mounded growth habit.

1 Drawing Sheet

1

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

Variety denomination: 'Bonmadepi'.

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 'Bonmadepi'.

The new cultivar originated in a controlled breeding
program in Yellow Rock, New South Wales, Australia
during October 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 03-166, not patented, characterized by its single
type deep pink colored flowers, medium green-colored
foliage, and mounded with open center growth habit. The
male (pollen) parent of the new cultivar is the proprietary
Argyranthemum×*hybrida* breeding selection designated
03-184, not patented, characterized by its single type light
pink-colored flowers, medium green-colored foliage, and
mounded 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 con-
trolled 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

2

'Bonmadepi' as a new and distinct cultivar of *Argyranthe-
mum* plant:

1. Single type lavender pink-colored flowers;
2. Medium green-colored foliage; and
3. Vigorous, compact, and upright-mounded growth habit.

Plants of the new cultivar differ from plants of the female
parent primarily in flower color and from plants of the male
parent primarily in flower color.

Of the many commercially available *Argyranthemum*
cultivars known to the inventor, the most similar in com-
parison to the new cultivar is Miss Pink 'Supasat' U.S. Plant
Pat. No. 15,442. However, in side by side comparisons,
plants of the new cultivar differ from plants of 'Supasat' in
the following characteristics:

1. Plants of the new cultivar have a ray floret color
different from plants of 'Supasat';
2. Plants of the new cultivar are wider than plants of
'Supasat'; and
3. Plants of the new cultivar have more inflorescences
than plants of 'Supasat'.

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 'Bonmadepi'. The plants
were grown in 4.5 inch pots for 10 weeks in a greenhouse
at West Chicago, Ill.

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

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

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 Jul. 11, 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 10 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 Bonmadepi.

Parentage:

Female parent.—Proprietary *Argyranthemum*×*hybrida* breeding selection designated 03-166, not patented.

Male parent.—Proprietary *Argyranthemum*×*hybrida* breeding selection designated 03-184, 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.—Vigorous, compact, and upright-mounded.

Size.—Height from soil level to top of plant plane: Approximately 24.6 cm. Width: Approximately 22.9 cm.

Branching habit.—Freely branching. Quantity of main branches per plant: Approximately 6.

Branch.—Strength: Strong. Length from soil level to base of peduncle: Approximately 10.9 cm. Diameter: Approximately 2.8 mm. Length of central internode: Approximately 7.9 mm. Texture: Glabrous. Color of young stem: Glauous, 144C. Color of mature stem: Glauous, 144C with woody base of N199B.

Foliage description:

General description.—Quantity of leaves per main branch: Approximately 14. 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 5.5 cm. Width of mature leaf: Approximately 3.5 cm. Texture of upper and lower surfaces: Glabrous. Color of upper surface of young foliage: 144A with venation of 144A. Color of lower surface of young foliage: 144B with venation of 144B. Color of upper surface of mature foliage: Glauous, 137A with venation of

137A. Color of lower surface of mature foliage: 137C with venation of 137C.

Flowering description:

Flowering habit.—‘Bonmadepi’ 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 7 to 8 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 18. Diameter: Approximately 3.5 cm. Fragrance: None.

Peduncle.—Strength: Strong, pliable. Aspect: Erect. Length: Approximately 8.9 cm. Diameter: Approximately 2.0 mm. Texture: Glabrous. Color: Glauous, 144B.

Bud.—Rate of opening: Generally takes 6 to 7 days for bud to progress from first color to fully open flower. Average quantity per plant: Approximately 1.

Bud just before opening.—Shape: Ovoid. Diameter: Approximately 6.3 mm. Color: 155D.

Ray florets.—Quantity per inflorescence: Approximately 18. Arrangement: Nonimbricate in a single whorl. 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 3.2 mm. Texture of upper surface: Glabrous. Texture of lower surface: Glabrous, ribbed. Color of upper surface when first open: 155D with a strong overlay of N74A. Color of lower surface when first open: 155D with a faint overlay of N74B. Color of upper surface when fully open: 155D with a strong overlay of N74C. Color of lower surface when fully open: 155D with a faint overlay of N74D.

Disc florets.—Quantity per inflorescence: Approximately 99. Arrangement: Massed in center of inflorescence. Shape: Tubular with 4 lobes. Margin: Entire. Apex: Acute. Base: Truncate. Length: Approximately 6.0 mm. Diameter at apex: Approximately 2.0 mm. Diameter at base: Approximately 1.0 mm. Texture: Glabrous with glandular pubescence on lower half. Gland color: Colorless. Color when fully open: 14B transitioning to base of 144D.

Disc.—Diameter: Approximately 1.3 cm. Depth: Approximately 7.7 mm.

Receptacle.—Shape: Cone. Height: Approximately 3.0 mm. Diameter at base: Approximately 4.0 mm. Color: 150C.

Phyllaries.—Quantity per inflorescence: Approximately 21. Arrangement: Imbricate, in several whorls. Shape: Lanceolate. Margin: Entire. Apex: Acute. Base: Truncate. Length: Approximately 4.3 mm. Width: Approximately 2.3 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 143B in center with transparent margins of N199B.

Reproductive organs.—Androecium: Present on disc florets only. Stamen quantity: 4 per floret. Stamen

5

length: Approximately 3.0 mm. Anther shape: Linear. Anther length: Approximately 1.0 mm. Anther color: 14A. Pollen amount: Sparse. Pollen color: 14C. 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 1 mm. Stigma color: 14B. Style length: Approximately 4.0 mm. Style color: 1D, transparent. Ovary length: Approximately 2.0 mm. Ovary color: Colorless, transparent.

6

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.

What is claimed is:

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

* * * * *

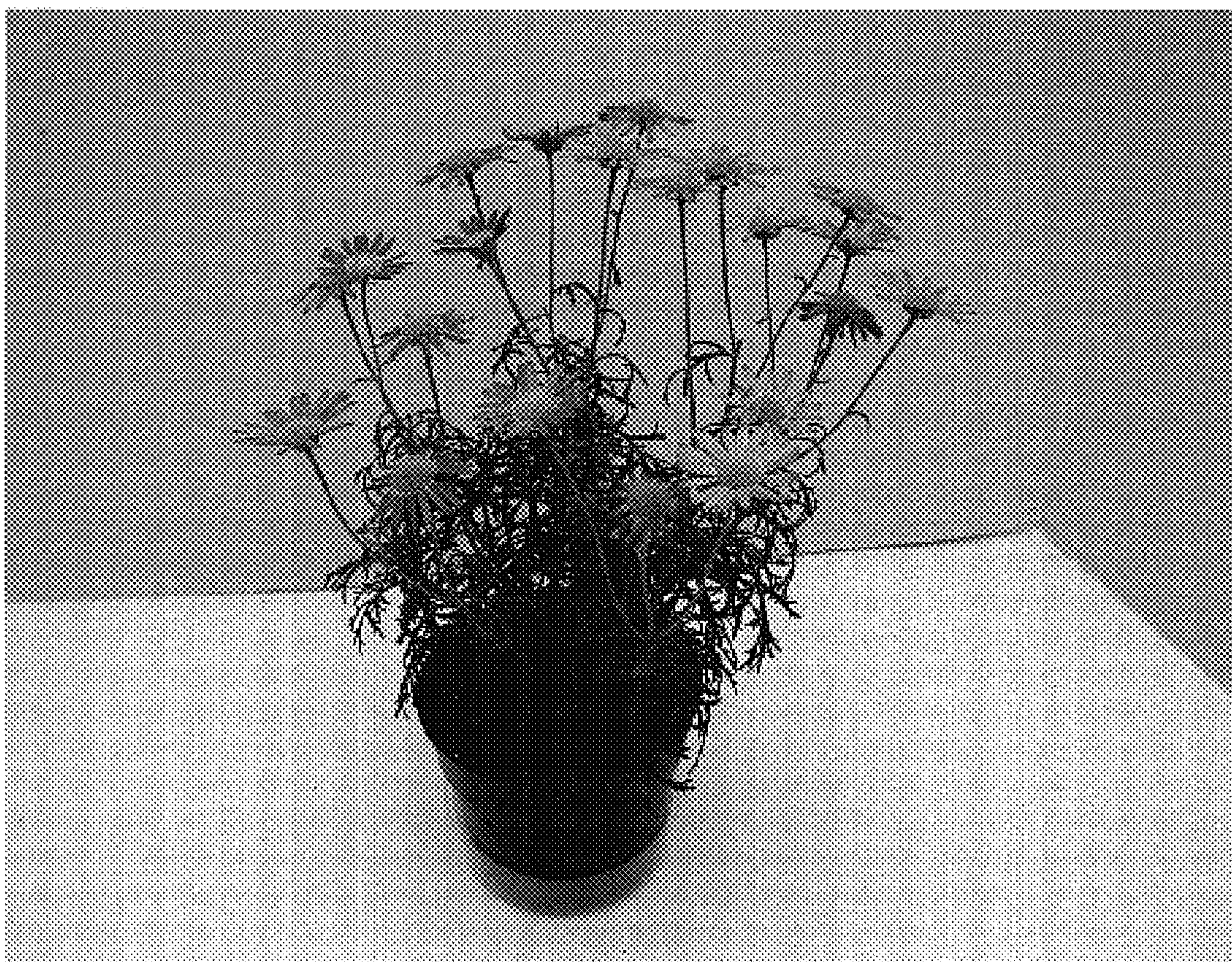


FIG. 1

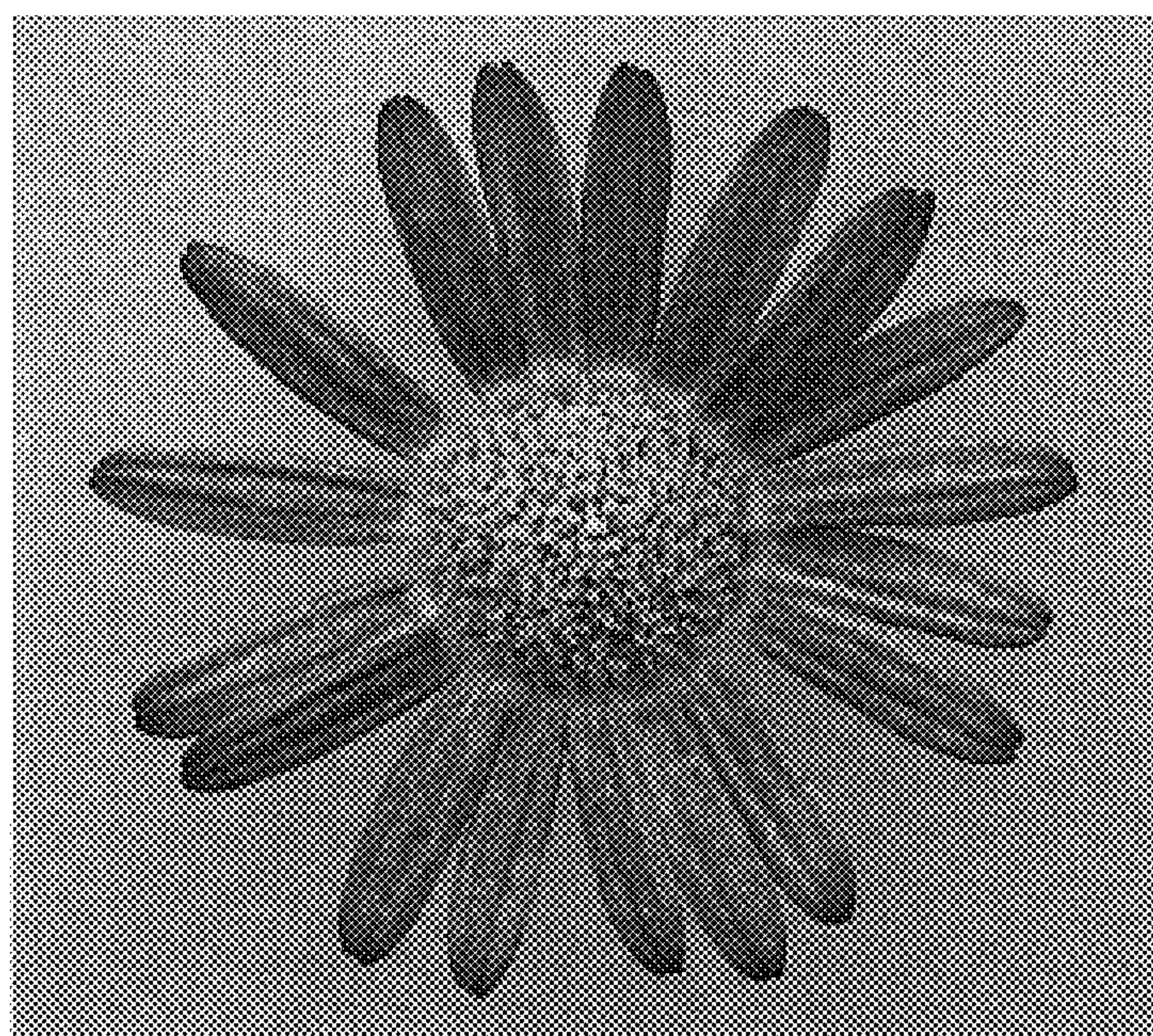


FIG. 2