



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

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(54) **DAHLIA PLANT NAMED ‘BALDADENWHI’**

(50) Latin Name: *Dahlia variabilis*
Varietal Denomination: **Baldadenwhi**

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patent is extended or adjusted under 35
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USPC **Plt./321**

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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Dahlia* plant named ‘Bal-
dadenwhi’, characterized by its double-type, white-colored
inflorescences, medium green-colored foliage, and vigorous,
upright-mounded growth habit, is disclosed.

1 Drawing Sheet

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Latin name of genus and species of plant claimed: *Dahlia*
variabilis.

Variety denomination: ‘Baldadenwhi’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Dahlia* plant botanically known as *Dahlia variabilis* and
hereinafter referred to by the cultivar name ‘Baldadenwhi’.

The new cultivar originated in a controlled breeding
program in Hem, The Netherlands during August 2015. The
objective of the breeding program was the development of
Dahlia cultivars that are freely flowering with large inflo-
rescences, mid-season flower timing, and a vigorous,
upright-mounded growth habit.

The new *Dahlia* cultivar is the result of cross pollination.
The female (seed) parent of the new cultivar is DAHLI-
ETTA Blanca ‘Baldablanci’, not patented, characterized by
its semi-double, daisy-type, white-colored inflorescences,
medium green-colored foliage, low growth vigor, and com-
pact-mounded growth habit. The male (pollen) parent of the
new cultivar is DAHLINOVA HYPNOTICA White ‘Fidah-
hypwhi’, U.S. Plant Pat. No. 21,256, characterized by its
double-type, white-colored inflorescences, medium green-
colored foliage, moderate vigor, and upright, somewhat
outwardly spreading, mounded growth habit. The new cul-
tivar was discovered as a single flowering plant within the
progeny of the above stated cross pollination during July
2016 in a controlled environment in Hem, The Netherlands.

Asexual reproduction of the new cultivar by terminal stem
cuttings since July 2016 in Hem, The Netherlands and
Andijk, The Netherlands has demonstrated that the new
cultivar reproduces true-to-type with all the characteristics,
as herein described, firmly fixed and retained through suc-
cessive 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
‘Baldadenwhi’ as a new and distinct cultivar of *Dahlia* plant:

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1. Double-type, white-colored inflorescences;
2. Medium green-colored foliage; and
3. Vigorous, upright-mounded growth habit.

Plants of the new cultivar differ from plants of the female
parent primarily in flower type and in having increased
growth vigor. Plants of the new cultivar differ from plants of
the male parent primarily in having more florets per inflo-
rescence.

Of the many commercially available *Dahlia* cultivars, the
most similar in comparison to the new cultivar is HYP-
NOTICA White ‘Dodahhypnowhit 19’, U.S. Plant Pat. No.
31,762. However, in comparison, plants of the new cultivar
differ from plants of ‘Dodahhypnowhit 19’ in at least the
following characteristics:

1. Plants of the new cultivar have larger diameter inflo-
rescences than plants of ‘Dodahhypnowhit 19’;
2. Plants of the new cultivar have more ray florets per
inflorescence than plants of ‘Dodahhypnowhit 19’; and
3. Plants of the new cultivar have higher growth vigor
than plants of ‘Dodahhypnowhit 19’.

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 ‘Baldadenwhi’. The
13-week-old plants were grown in 6.5-inch pots for 9 weeks
in a glass-covered greenhouse in Hem, The Netherlands.
Plants were given one pinch before transplant.

FIG. 1 illustrates a side view of the overall growth and
flowering habit of ‘Baldadenwhi’.

FIG. 2 illustrates a close-up view of an individual inflo-
rescence of ‘Baldadenwhi’.

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, 2015 edition, except where general color terms of ordinary significance are used. The color values were determined in March 2021 under natural light conditions in Boskoop, The Netherlands.

The following descriptions and measurements describe 13-week-old plants produced from cuttings from stock plants and grown in a glass-covered greenhouse under conditions comparable to those used in commercial practice. The plants were grown in Hem, The Netherlands in 6.5-inch pots for 9 weeks utilizing a soilless growth medium. Plants were given one pinch before transplant. Three Daminozide treatments were applied: one at 2,500 ppm two weeks after transplant, a second at 3,000 ppm four weeks after transplant and a third at 3,500 ppm six weeks after transplant. Greenhouse temperatures were maintained at an average of approximately 64° F. (18° C.) during the day and approximately 61° F. (16° C.) during the night. Supplemental lighting was used. Measurements and numerical values represent averages of typical plants.

Botanical classification: *Dahlia variabilis* 'Baldadenwhi'.

Parentage:

Female parent.—DAHLIETTA Blanca 'Baldablanci', not patented.

Male parent.—DAHLINOVA HYPNOTICA White 'Fidahhypwhi', U.S. Plant Pat. No. 21,256.

Propagation:

Type cutting.—Terminal stem.

Time to initiate roots.—Approximately 9 to 12 days.

Time to produce a rooted cutting.—Approximately 25 to 32 days.

Root description.—Fine, fibrous.

Rooting habit.—Freely branching.

Plant description:

Commercial crop time.—Approximately 7 to 9 weeks from a rooted cutting to finish in a 15 cm pot.

Growth habit and general appearance.—Vigorous, upright-mounded.

Size.—Height from soil level to top of plant plane: Approximately 28.5 cm. Height from soil level to top of foliage: Approximately 24.0 cm. Width: Approximately 39.9 cm.

Branch.—Quantity of lateral branches per plant: Approximately 5. Strength: Moderately strong. Length of lateral branch: Approximately 16.2 cm. Diameter of lateral branch at central internode: Approximately 9.0 mm. Length of central internode of lateral branch: Approximately 3.2 cm. Texture: Glabrous. Color: 146B with 144A.

Foliage description:

General description.—Quantity of leaves per lateral branch: Approximately 12. Type: Simple and compound. Quantity of leaflets per compound leaf: Approximately 3, trifoliate. Fragrance: None detected. Arrangement: Opposite. Aspect: Petiole mostly perpendicular angle to stem with blade extending downward. Shape of leaf and leaflet: Ovate to broadly elliptic. Margin of leaf and leaflet: Widely serrate. Apex of leaf and leaflet: Acute. Base of leaf and leaflet: Broadly attenuate. Venation pattern: Pinnate.

Simple leaf.—Length: Approximately 13.7 cm. Width: Approximately 9.0 cm. Texture of upper surface: Glabrous. Texture of lower surface: Sparsely pubescent on venation. Color of upper surface: NN137C blended with 147A. Color of lower surface: 191A to 191B. Length of petiole: Approximately 3.5 cm. Diameter of petiole: Approximately 4.5 mm. Texture of upper and lower surfaces of petiole: Glabrous. Color of upper surface of petiole: 146B with 137A. Color of lower surface of petiole: 146B.

Mature trifoliate leaf.—Shape: Ovate in outline. Length of mature trifoliate leaf: Approximately 14.3 cm. Width of mature trifoliate leaf: Approximately 16.4 cm. Length of terminal leaflet: Approximately 11.3 cm. Width of terminal leaflet: Approximately 7.3 cm. Length of lateral leaflet: Approximately 9.5 cm. Width of lateral leaflet: Approximately 6.0 cm. Texture of upper surface: Glabrous. Texture of lower surface: Sparsely pubescent on venation. Color of upper surface: NN137C blended with 147A. Color of lower surface: 191A and 191B. Length of petiole of mature trifoliate leaf: Approximately 6.0 cm. Diameter of petiole of mature trifoliate leaf: Approximately 5.0 mm. Texture of upper and lower surfaces of petiole: Glabrous. Color of upper surface of petiole: 146B with 137A. Color of lower surface of petiole: 146B. Length of rachis: Approximately 1.8 cm. Diameter of rachis: Approximately 2.0 mm. Texture of upper and lower surfaces of rachis: Glabrous. Color of upper and lower surfaces of rachis: 146B.

Flowering description:

Flowering habit.—'Baldadenwhi' is freely flowering under outdoor growing conditions with substantially continuous blooming from summer through autumn.

Lastingness of individual inflorescence on the plant.—Approximately 2 weeks.

Inflorescence description:

General description.—Type: Double, composite, consisting of multiple rows or ray florets, and disc florets, persistent. Aspect: Facing upward and outward. Arrangement: Terminal, arising from leaf axils on strong peduncles positioned over the foliage. Disc and ray florets arranged acropetally on a capitulum. Quantity per plant: Approximately 5. Fragrance: None. Shape: Hemispherical to near spherical when ray florets are fully open. Inflorescence diameter: Approximately 9.9 cm. Inflorescence depth: Approximately 6.8 cm. Disc diameter: Approximately 1.6 cm. Receptacle diameter at base: Approximately 1.0 cm. Receptacle depth: Approximately 3.0 mm. Receptacle color: 145B.

Peduncle.—Strength: Strong. Aspect: Erect. Length: Approximately 13.6 cm. Diameter: Approximately 4.0 mm. Texture: Glabrous. Color: 144A.

Bud.—Rate of bud opening: Generally takes 2 weeks for bud to progress from first color to fully open flower. Quantity per plant: Approximately 18.

Bud just before opening.—Shape: Oblate. Depth at first color: Approximately 1.2 cm. Diameter at first color: Approximately 1.8 cm. Texture: Glabrous. Color: Outer surface of the phyllaries 151D with base of 143B.

Ray florets.—Quantity per inflorescence: Approximately 100. Arrangement: Imbricate, in multiple

whorls. Aspect: Slightly convex. Shape: Obovate. Margin: Entire. Apex: Apiculate. Base: Attenuate. Appearance: Matte. Length: Approximately 4.2 cm. Width: Approximately 2.2 cm. Texture of upper surface: Glabrous. Texture of lower surface: 5
Sparsely pubescent on main veins, ribbed. Color of upper surface when first and fully open: 155C with base of 154D. Color of lower surface when first and fully open: 157D with base of 154D. Color of upper surface before senescence: NN155C with base of 10
150C. Color of lower surface before senescence: NN155C with base of 154D.

Disc florets.—Quantity per inflorescence: Approximately 48. Arrangement: Massed in center of inflorescence. Aspect: Erect. Shape: Tubular. Margin: 15
Entire. Apex: 5 acute tips. Base: Fused. Length: Approximately 1.4 cm. Diameter at apex: Approximately 4.0 mm. Diameter at base: Approximately 1.0 mm. Texture: Glabrous. Color when fully open: 13A with midsection of 153D and 157D at base, translucent. 20

Outer phyllaries.—Quantity: Approximately 6. Aspect: Flat, reflexed. Shape: Narrowly elliptic. Margin: Entire. Apex: Acute. Base: Truncate. Length: 25
Approximately 1.7 cm. Width: Approximately 7.0 mm. Texture of upper and lower surfaces: Glabrous. Color of upper and lower surfaces: 137B.

Inner phyllaries.—Quantity: Approximately 1 per floret. Shape: Linear, imbricate. Margin: Entire. Apex:

Broadly acute to obtuse. Base: Truncate. Length of outermost: Approximately 2.2 cm. Width of outermost: Approximately 7.0 mm. Length of innermost: Approximately 1.5 cm. Width of innermost: Approximately 5.0 mm. Texture of upper and lower surfaces: Glabrous. Color of upper and lower surfaces: 151D, translucent with 143A at base of outermost.

Reproductive organs.—Androecium: On disc florets. Stamen quantity: 5 per floret. Stamen length: Approximately 7.0 mm. Anther shape: Linear. Anther length: Approximately 3.0 mm. Anther color: 154D. Pollen amount: Sparse. Pollen color: 23A. Gynoecium: On disc and ray florets. Pistil length: Approximately 1.0 cm. Stigma shape: 2 branched. Stigma length: Approximately 2.0 mm. Stigma width: Approximately 4.0 mm. Stigma color: 14A. Style length: Approximately 8.0 mm. Style color: 1A. 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 *Dahlia* has not been observed.

What is claimed is:

1. A new and distinct cultivar of *Dahlia* plant named 'Baldadenwhi', substantially as herein illustrated and described.

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FIG. 1

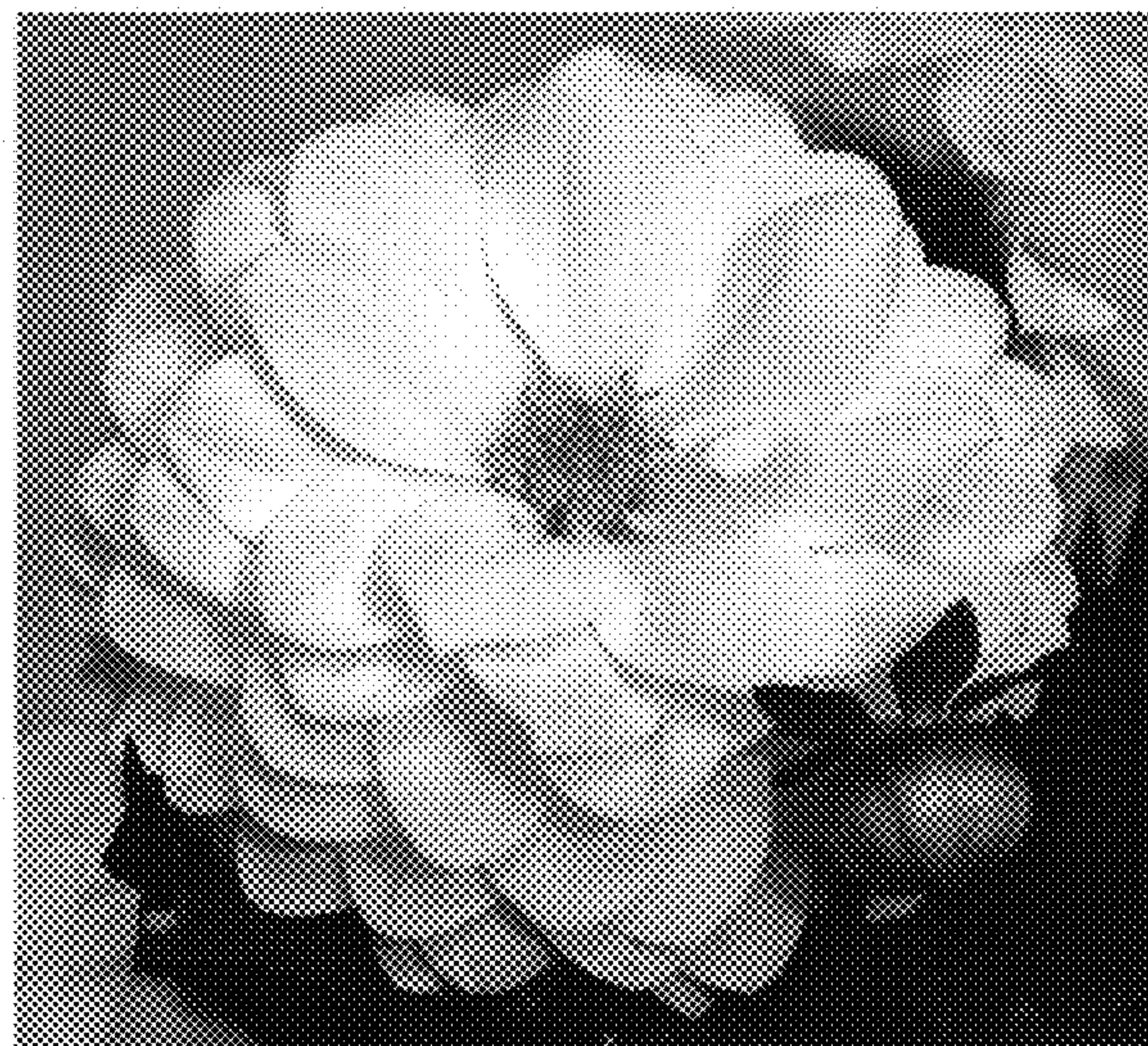


FIG. 2