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Van Swieten

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(54) ***PHALAENOPSIS* ORCHID PLANT NAMED 'PHALGOBI'**

(50) Latin Name: ***Phalaenopsis* hybrid**
Varietal Denomination: **PHALGOBI**

(71) Applicant: **ANTHURA B.V.**, Bleiswijk (NL)

(72) Inventor: **Martinus Nicolaas Gerardus Van Swieten**, Utrecht (NL)

(73) Assignee: **ANTHURA B.V.**, Bleiswijk (NL)

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See application file for complete search history.

Primary Examiner — Susan McCormick Ewoldt
Assistant Examiner — Karen M Redden
(74) *Attorney, Agent, or Firm* — Jondle & Associates, P.C.

(57) **ABSTRACT**

A new and distinct variety of *Phalaenopsis* plant named 'PHALGOBI', particularly characterized by having light greenish-yellow flowers with yellow lips, 1 to 3 peduncles that are long and sturdy, leaves that are oblong, and is propagated by meristem tissue culture, is disclosed.

3 Drawing Sheets

Genus and species: *Phalaenopsis* hybrid.
Variety denomination: 'PHALGOBI'.

BACKGROUND OF THE NEW PLANT

The present invention relates to a new and distinct cultivar of *Phalaenopsis* plant, botanically known as *Phalaenopsis* hybrid of the Orchidaceae family, commonly referred to as moth orchid, and hereinafter referred to by the variety name 'PHALGOBI'.

The new *Phalaenopsis* plant is a product of a planned breeding program conducted by the inventor in Bleiswijk, the Netherlands. The objective of this breeding program was to create a new *Phalaenopsis* plant with numerous attractive light greenish-yellow flowers with yellow lips, suitable for potted plant production.

The new *Phalaenopsis* plant 'PHALGOBI' is a result of cross-pollination made by the inventor in May 2008 in Bleiswijk, the Netherlands, of the proprietary female, or seed parent, *Phalaenopsis* hybrid '22286-05' (unpatented) with the proprietary male, or pollen parent, *Phalaenopsis* hybrid '01-1630' (unpatented).

The new *Phalaenopsis* was selected by the inventor as a single plant within the progeny of the stated cross-pollination in a controlled greenhouse in Bleiswijk, the Netherlands, in August 2011. Asexual reproduction of the new *Phalaenopsis* plant by meristem tissue culture since 2014 in Bleiswijk, the Netherlands, has demonstrated that the new variety reproduces true to type with all of the characteristics, as herein described, firmly fixed and retained through successive generations.

Plant Breeder's Rights for this variety have been applied for in Europe on Sep. 26, 2017, by Applicant who obtained the subject matter disclosed directly from the Inventor. 'PHALGOBI' has not been made publicly available or sold

anywhere in the world more than one year prior to the effective filing date of this application.

SUMMARY OF THE INVENTION

The following are the most outstanding and distinguishing characteristics of this new cultivar when grown under normal horticultural practices in Bleiswijk, the Netherlands, and can be used to distinguish 'PHALGOBI' as a new and distinct variety of *Phalaenopsis* plant:

1) Light greenish-yellow flowers with yellow lips;
2) 1 to 3 peduncles;
3) Peduncle is long and sturdy; and
4) Shape of the leaf is oblong.

DESCRIPTION OF THE PHOTOGRAPHS

This new *Phalaenopsis* plant is illustrated by the accompanying photographs which show the overall plant habit including blooms and foliage of the plant; the colors shown are as true as can be reasonably obtained by conventional photographic procedures. The photographs were taken in a greenhouse in Bleiswijk, the Netherlands, from 50-week-old plants in December 2018. Colors in the photographs may differ from the color values cited in the detailed botanical description, which accurately describe the actual colors of the new variety.

FIG. **1** shows the overall plant habit, including blooms and foliage of 'PHALGOBI'.

FIG. **2** shows a close-up of a flower of 'PHALGOBI'.

FIG. **3** shows an overhead view of the leaves of 'PHALGOBI'.

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of 'PHALGOBI'. Plants of the new *Phalaenopsis* have not been observed under all possible

environmental conditions. The phenotype may vary somewhat with variations in 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 under 4000-6000 lux natural light in a greenhouse in Bleiswijk, the Netherlands. Observations and measurements were made in December 2018 on flowering plants which were planted in 12-centimeter (diameter) pots. After in-vitro propagation, the plants were grown in nursery trays for 20-24 weeks, followed by transplantation to 12-centimeter pots and grown in a greenhouse between 27° C. to 29° C. for 30 weeks, continued by a cooling period of 8 weeks between 18° C. to 20° C. and 12 weeks in a greenhouse of 21° C. Flowering occurs after 50 weeks in 12-centimeter pots.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Orchidaceae.

Botanical.—*Phalaenopsis* hybrid.

Common name.—Moth orchid.

Variety name.—'PHALGOBI'.

Parentage:

Female parent.—*Phalaenopsis* cultivar '22286-05' (unpatented).

Male parent.—*Phalaenopsis* cultivar '01-1630' (unpatented).

Propagation:

Type.—Meristem tissue culture.

Roots:

Root description.—Greyed-green (between RHS 190B and 190C) colored roots with branching lateral roots having light yellow-green (RHS 145B) colored root tips.

Plant:

Commercial crop time to flowering.—Following asexual propagation (in-vitro), the rooted cuttings grow for 20-24 weeks. After transplantation into 12-cm pots, the plants are finished after 48 to 50 weeks.

Growth habit of peduncle.—Upright to slightly pendant with raceme to panicle inflorescence.

Height (from soil level to top of inflorescence).—Approximately 45.0 cm to 50.0 cm.

Width (measured from leaf tips).—About 29.0 cm to 31.0 cm.

Vigor.—Moderate.

Leaves:

Mature leaves.—Quantity per plant: 6 to 8 leaves are produced before flowering. Length (fully expanded): 14.0 cm to 16.0 cm. Width: 7.0 cm to 8.0 cm. Shape: Oblong. Base shape: Moderately elongated. Apex: Obtuse unequal. Leaf blade angle with the petiole (measured from the horizontal position): Between 15 degrees and 25 degrees. Leaf margin: Entire. Color: Upper surface: RHS 146A. Lower surface: RHS 146B. Texture (upper surface): Rough. Thickness: 2.7 mm to 3.0 mm. Venation: Pattern: Parallel. Color of the midvein: Upper surface: RHS 146A. Lower surface: RHS 146B.

Peduncle:

Quantity per plant.—1 to 3.

Number of flowers per peduncle.—7 to 10.

Length.—45.0 cm to 50.0 cm.

Diameter.—5.3 mm to 5.5 mm.

Strength.—Strong.

Aspect.—Upright to slightly pendant.

Texture.—Smooth on both sides.

Color.—Green (between RHS 146A and 146B).

Internode length.—2.5 cm to 3.5 cm.

Inflorescence description:

Appearance.—Upright to slightly pendant, raceme to panicle inflorescence with bilaterally symmetrical flowers that open in succession beginning with the lowermost flower.

Inflorescence size.—Height (from base to tip): 160.0 mm to 180.0 mm.

Flowering time.—First flowers can be expected 10 to 11 months after planting in a 12-cm pot.

Flower.—Height: 73.0 mm to 78.0 mm. Diameter: 85.0 mm to 90.0 mm. Depth of lip: 21.0 mm to 23.0 mm.

Flower longevity.—On the plant: 20 to 24 weeks.

Fragrance.—Absent.

Flower bud.—Average size: Medium to large. Length: 21.0 mm to 23.0 mm. Width: 18.0 mm to 20.0 mm. Shape: Egg shaped. Color: Yellow-green (RHS 144C).

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Obtuse asymmetric. Margin: Entire. Length (from base to tip): 39.0 mm to 41.0 mm. Width: 42.0 mm to 44.0 mm. Color (when fully opened): Upper surface: Basic color: Light yellow-green (RHS 150D). Over color: Absent. Lower surface: Basic color: Light yellow-green (mix of RHS 150D and 145D). Over color: Absent.

Dorsal sepal.—Shape: Elliptic. Apex: Slightly emarginated symmetric. Margin: Entire. Length (from base to tip): 41.0 mm to 43.0 mm. Width: 29.0 mm to 31.0 mm. Color (when fully opened): Upper surface: Basic color: Light yellow-green (RHS 150D). Over color: Slightly yellow-green (RHS 150C) in the middle. Lower surface: Basic color: Light yellow-green (RHS 150D). Over color: Yellow-green (RHS 150C) in the middle.

Lateral sepals.—Shape: Ovate. Apex: Obtuse asymmetric. Margin: Entire. Length (from base to tip): 42.0 mm to 44.0 mm. Width: 28.0 mm to 30.0 mm. Color (when fully opened): Upper surface: Basic color: Light yellow-green (between RHS 150C and 150D). Over color: Absent. Lower surface: Basic color: Light yellow-green (RHS 150C). Over color: Absent.

Labellum (lip).—Whiskers: Present. Length of whiskers: 14.0 mm to 16.0 mm. Color of whiskers: White (RHS NN155C). Pubescence on the lip: Absent.

Lateral lobe.—Shape: Type IV (as described in the International Union for the Protection of New Varieties of Plants (UPOV) Test Guidelines for *Phalaenopsis*); weakly spatulate. Margin: Undulated. Length: 18.0 mm to 20.0 mm. Width: 8.0 mm to 10.0 mm. Color: Red stripes (RHS 183C) at the base; yellow (RHS 12A) on one side; white (RHS NN155C) toward other side.

Apical lobe.—Shape: Triangular. Margin: Entire. Length: 19.0 mm to 21.0 mm. Width: 20.0 mm to

22.0 mm. Color: Reddish-orange spots (RHS 175B) and greenish-yellow wings (RHS 151B); yellow (RHS 9A) and white (RHS NN155C) toward whiskers.

Callus.—Average size: Medium. Height: 5.0 mm to 6.0 mm. Length: 4.0 mm to 5.0 mm. Width: 4.0 mm to 5.0 mm. Color: Orange-yellow (RHS 17A); dotted (RHS 183B).

Reproductive organs:

Column.—Length: 9.0 mm to 11.0 mm. Diameter: 6.1 mm to 6.4 mm. Color: White (RHS NN155C).

Pollinia.—Quantity: 2. Diameter: 0.9 mm to 1.1 mm. Color: Orange-yellow (RHS 23A).

Ovary.—Length: 10.0 mm to 12.0 mm. Diameter: 2.6 mm to 2.8 mm. Color: Light yellow-green (RHS 145C to 145D) toward the flower.

Pedicel.—Length: 37.0 mm to 39.0 mm. Diameter: 2.8 mm to 3.1 mm. Color: Yellow-green (RHS 145A) at the base; light yellow-green (RHS 145C to 145D) toward the flower.

Disease, pest, and stress resistance: No specific resistance or susceptibility observed to pathogens and pests common to *Phalaenopsis* to date.

Fruit and seeds: Fruit and seed development has not been observed on plants of the new *Phalaenopsis* to date.

COMPARISON WITH PARENTAL LINES AND MOST SIMILAR VARIETIES

'PHALGOBI' differs from female parent plant '22286-05' (unpatented) in that 'PHALGOBI' has triangular apical lobes, weakly spatulate lateral lobes, and flowers with an upper surface basic color of light yellow-green, whereas '22286-05' has rhombic apical lobes, rhombic lateral lobes, and flowers with an upper surface basic color of yellow. Additionally, 'PHALGOBI' has larger flowers and longer whiskers than '22286-05'.

'PHALGOBI' differs from male parent plant '01-1630' (unpatented) in that 'PHALGOBI' has weakly spatulate lateral lobes and flowers with an upper surface basic color of light yellow-green, whereas '01-1630' has spatulate lateral lobes and flowers with an upper surface basic color of white. Additionally, 'PHALGOBI' has smaller flowers and shorter whiskers than '01-1630'.

'PHALGOBI' is most similar to the commercial *Phalaenopsis* plants named 'PHALFIMWAQ' (U.S. Plant Pat. No. 26,067) and 'PHALCROBOH' (unpatented). 'PHALGOBI' differs from the commercial variety 'PHALFIMWAQ' in that 'PHALGOBI' has weakly spatulate lateral lobes, whereas 'PHALFIMWAQ' has spatulate lateral lobes. Additionally, 'PHALGOBI' has longer whiskers than 'PHALFIMIWAQ'.

'PHALGOBI' differs from the commercial variety 'PHALCROBOH' in that 'PHALGOBI' has triangular apical lobes, whereas 'PHALCROBOH' has trullate apical lobes. Additionally, 'PHALGOBI' has larger flowers and longer whiskers than 'PHALCROBOH'.

I claim:

1. A new and distinct variety of *Phalaenopsis* plant named 'PHALGOBI', substantially as described and illustrated herein.

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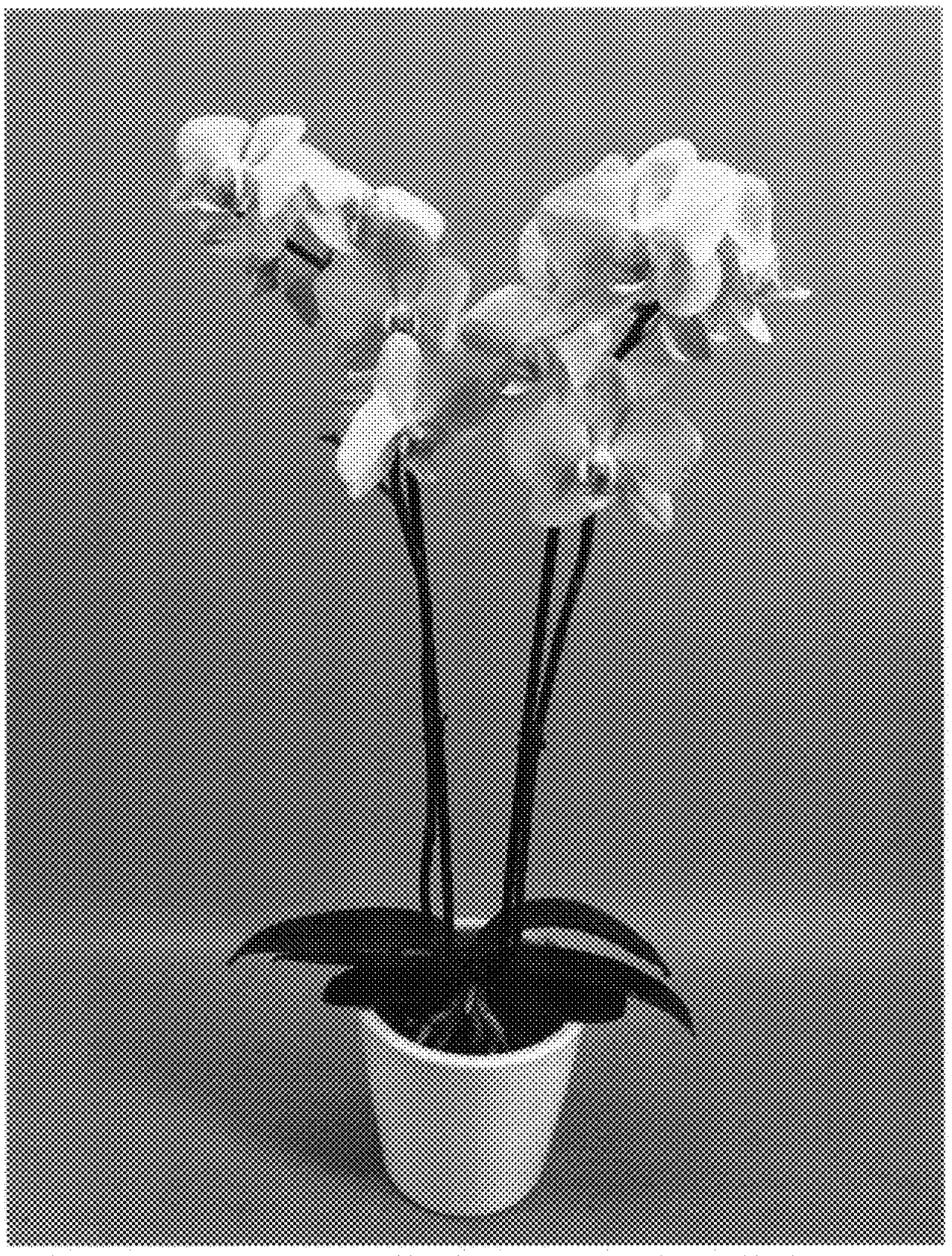

FIG. 1

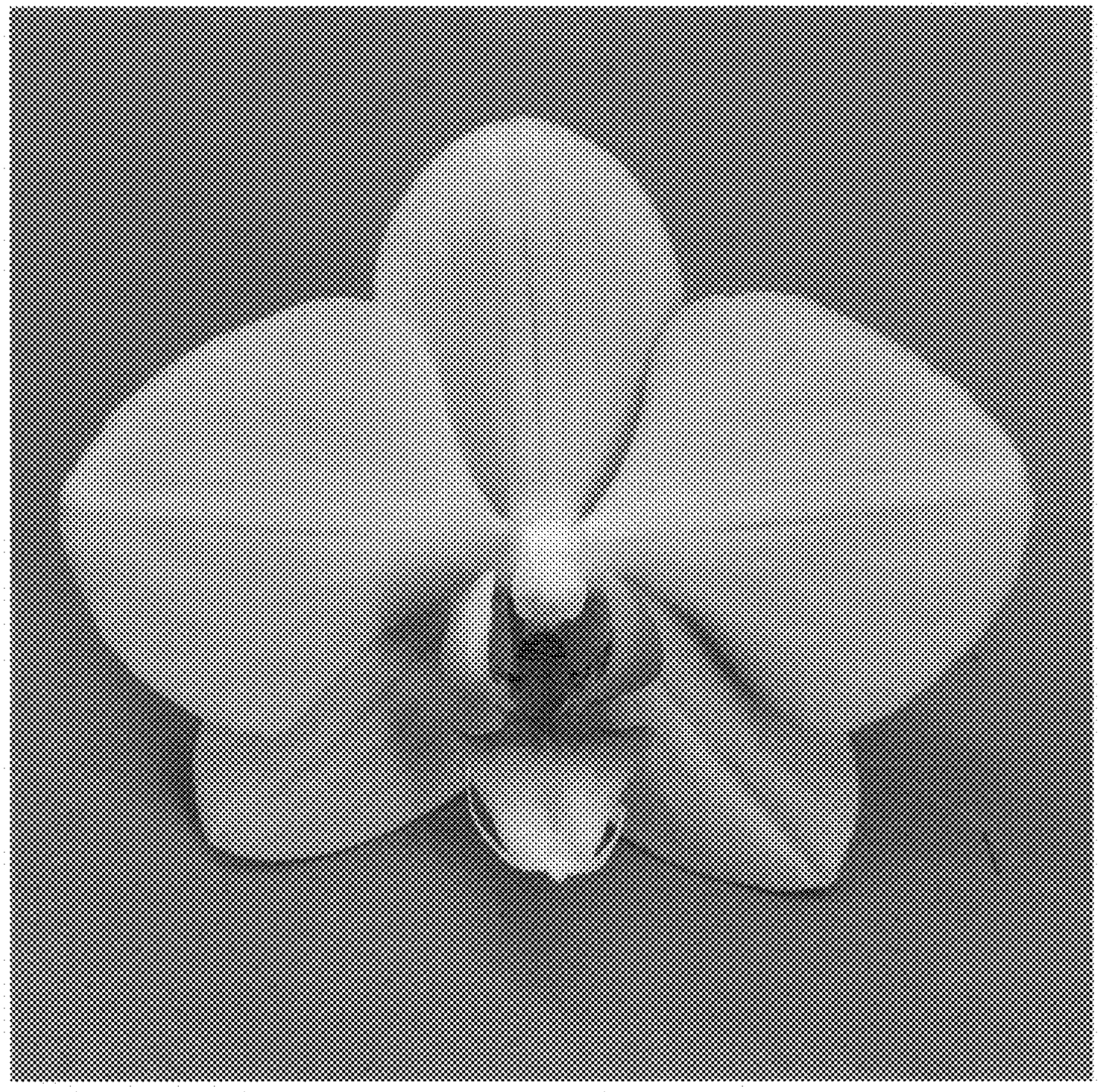

FIG. 2

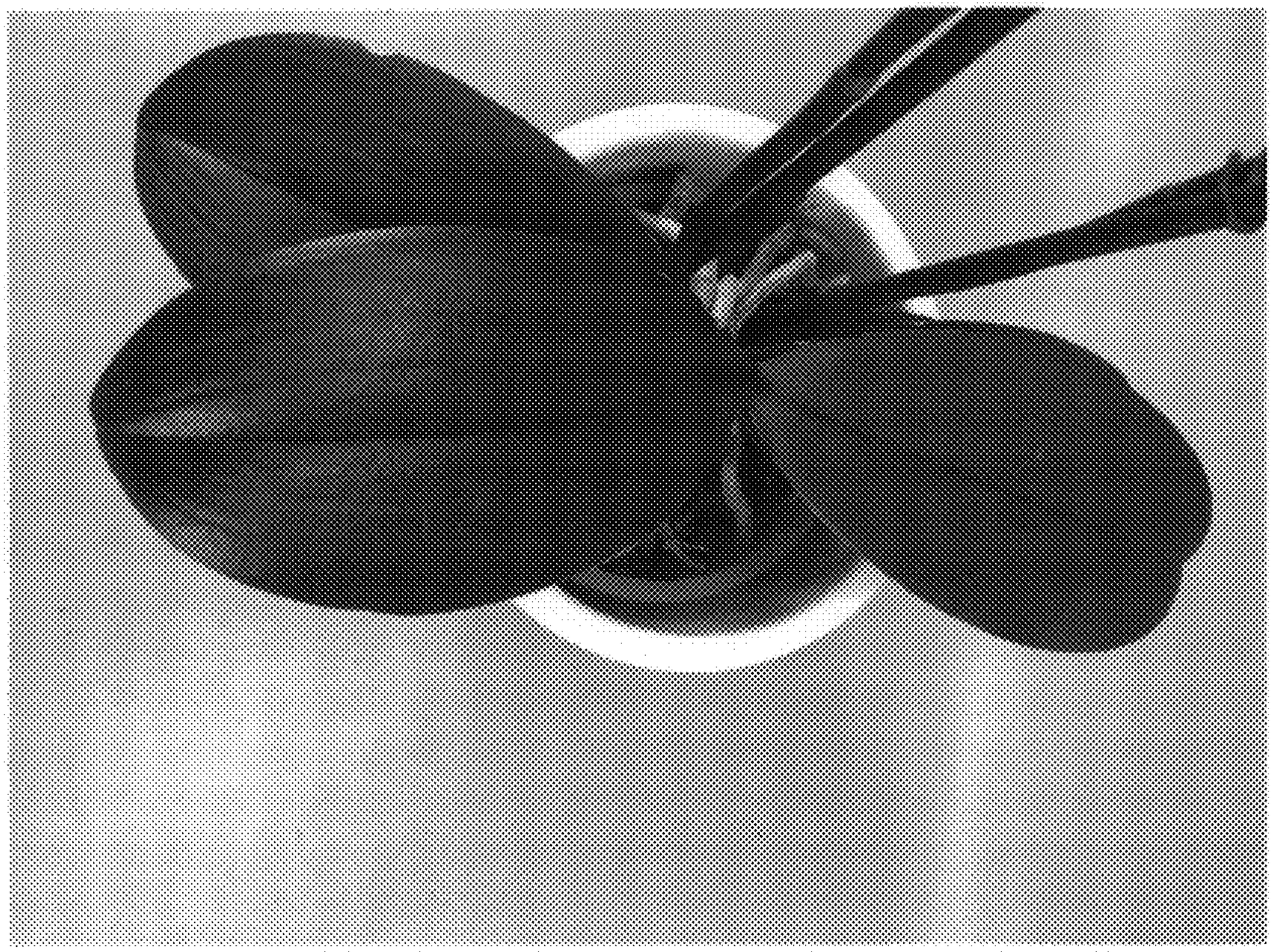

FIG. 3