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Van Swieten

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

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

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USPC **Plt./311**

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(57) **ABSTRACT**

A new and distinct variety of *Phalaenopsis* plant named 'PHALHYLDO', particularly characterized by having white flowers with greenish-yellow and white lips, 1 to 3 peduncles, flower longevity on the plant of 18 to 21 weeks, and is propagated by meristem tissue culture, is disclosed.

3 Drawing Sheets

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

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 'PHALHYLDO'.

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 several branches and attractive white flowers with greenish-yellow and white lips, suitable for potted plant production.

The new *Phalaenopsis* plant 'PHALHYLDO' is a result of cross-pollination made by the inventor in August 2010 in Bleiswijk, the Netherlands, of the proprietary female, or seed parent, *Phalaenopsis* hybrid '01-3469' (unpatented) with the proprietary male, or pollen parent, *Phalaenopsis* hybrid '21232-04' (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 2013. Asexual reproduction of the new *Phalaenopsis* plant by meristem tissue culture since 2015 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.

Community Plant Variety Rights for this variety have been applied for in the European Union on Apr. 16, 2019, by Applicant who obtained the subject matter disclosed directly from the inventor. 'PHALHYLDO' has not been made publicly available or sold anywhere in the world prior to the effective filing date of this application with the exception of sales or disclosures made one year or less before the

effective filing date of this claimed invention by Applicant who obtained 'PHALHYLDO' directly from the inventor.

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 'PHALHYLDO' as a new and distinct variety of *Phalaenopsis* plant:

1) White flowers with greenish-yellow and white lips;
2) 1 to 3 peduncles; and
3) Flower longevity on the plant is 18 to 21 weeks.

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 October 2019. 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 'PHALHYLDO'.

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

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

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of 'PHALHYLDO'. Plants of the new *Phalaenopsis* have not been observed under all possible environmental conditions. The phenotype may vary some-

what 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 October 2019 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.—'PHALHYLDO'.

Parentage:

Female parent.—Phalaenopsis cultivar '01-3469' (unpatented).

Male parent.—Phalaenopsis cultivar '21232-04' (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 inflorescence.

Height (from soil level to top of inflorescence).—Approximately 50.0 cm to 55.0 cm.

Width (measured from leaf tips).—About 33.0 cm to 35.0 cm.

Vigor.—Strong.

Leaves:

Mature leaves.—Quantity per plant: 8 to 10 leaves are produced before flowering. Length (fully expanded): 18.0 cm to 19.0 cm. Width: 6.0 cm to 7.0 cm. Position of the broadest part of the leaf: Toward the apex. Shape: Obovate. Base shape: Moderately elongated. Apex: Obtuse unequal. Leaf blade angle with the petiole (measured from the horizontal position): Between 20 degrees and 30 degrees. Leaf margin: Entire. Color: Upper surface: RHS 146A. Lower surface: RHS 146B. Texture (both upper and lower surfaces): Smooth. Thickness: 2.6 mm to 3.0 mm. Variegation: Absent. 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.—8 to 12.

Length.—50.0 cm to 55.0 cm.

Diameter.—5.4 mm to 5.9 mm.

Strength.—Strong.

Aspect.—Upright to pendant.

Texture.—Smooth.

Color.—Mix of green (RHS 146A) and brown (RHS 200B).

Internode length.—2.0 cm to 3.0 cm.

Inflorescence description:

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

Number of inflorescences.—1 to 3.

Inflorescence size.—Height (from base to tip): 200.0 mm to 230.0 mm.

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

Flower.—Height: 70.0 mm to 75.0 mm. Diameter: 85.0 mm to 90.0 mm. Depth of lip: 21.0 mm to 23.0 mm.

Flower longevity.—On the plant: 18 to 21 weeks.

Flower shape.—Flat.

Fragrance.—Absent.

Flower bud.—Average size: Medium. Length: 17.0 mm to 19.0 mm. Width: 15.0 mm to 17.0 mm. Shape: Egg shaped. Color: Yellow-green (RHS N144D) with a touch of diluting dark purplish-pink (RHS 186C).

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Rounded asymmetric. Margin: Entire. Length (from base to tip): 38.0 mm to 40.0 mm. Width: 50.0 mm to 52.0 mm. Position of the broadest part of the petal: Toward the base. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Absent. Lower surface: Basic color: White (RHS NN155C). Over color: Very light purple midvein (RHS 76B). Number of spots and stripes on the petals (upper surface): None. Color of spots and stripes on the petals (upper surface): None. Density of netting of the petals (upper surface): None. Color of the netting (upper surface): None.

Dorsal sepal.—Shape: Elliptic. Apex: Slightly emarginated. Margin: Entire. Length (from base to tip): 43.0 mm to 45.0 mm. Width: 28.0 mm to 30.0 mm. Position of the broadest part of the dorsal sepal: In the middle. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Absent. Lower surface: Basic color: White (RHS NN155C). Over color: Hint of very light purple (RHS 76B). Number of spots and stripes on the dorsal sepals (upper surface): None. Color of spots and stripes on the dorsal sepals (upper surface): None. Density of netting of the dorsal sepals (upper surface): None. Color of the netting (upper surface): None.

Lateral sepals.—Shape: Ovate. Apex: Obtuse asymmetric. Margin: Entire. Length (from base to tip): 42.0 mm to 45.0 mm. Width: 26.0 mm to 28.0 mm. Position of the broadest part of the lateral sepals: Toward the base. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Light yellow-green (RHS 145C) at the base.

Lower surface: Basic color: White (RHS NN155C). Over color: Slightly light yellow-green (RHS 145C) at the base. Number of spots and stripes on the lateral sepals (upper surface): None. Color of spots and stripes on the lateral sepals (upper surface): None. Density of netting of the lateral sepals (upper surface): None. Color of the netting (upper surface): None.

Labellum (*lip*).—Whiskers: Present. Length of whiskers: 8.0 mm to 10.0 mm. Color of whiskers: White (RHS NN155C). Pubescence on the lip: Absent.

Lateral lobe.—Shape: Type V (as described in the International Union for the Protection of New Varieties of Plants (UPOV) Test Guidelines for *Phalaenopsis*); spatulate. Margin: Entire. Length: 19.0 mm to 21.0 mm. Width: 14.0 mm to 16.0 mm. Color: Upper surface: White (RHS NN155C); greenish-yellow (RHS 153C) at the margin on one side. Lower surface: Diluting purplish (RHS 186C) at the base; greenish-yellow (RHS 153C) at the margin on one side; white (RHS NN155C) toward the other side. Number of spots and stripes on the lateral lobe: Few. Color of spots and stripes on the lateral lobe: RHS 186A and 174B. Density of netting of the lateral lobe: None. Color of the netting: None.

Apical lobe.—Shape: Triangular. Margin: Entire. Length: 20.0 mm to 22.0 mm. Width: 20.0 mm to 22.0 mm. Color: Upper surface: Greenish-yellow (RHS 151C) at the base; white (RHS NN155C) toward the whiskers. Lower surface: Greenish wings (RHS 151D); white (RHS NN155C) toward the whiskers. Number of spots and stripes on the apical lobe: None. Color of spots and stripes on the apical lobe: None. Density of netting of the apical lobe: None. Color of the netting: None.

Callus.—Average size: Medium. Height: 5.0 mm to 6.0 mm. Length: 6.0 mm to 7.0 mm. Width: 4.0 mm to 5.0 mm. Color: Greenish-yellow (RHS 5B) with brown-reddish spots (RHS 174A).

Reproductive organs:

Column.—Length: 7.0 mm to 9.0 mm. Diameter: 4.7 mm to 5.2 mm. Color: White (RHS NN155C).

Pollinia.—Quantity: 2. Diameter: 0.8 mm to 1.0 mm. Color: Orange (RHS 24A).

Ovary.—Length: 8.0 mm to 10.0 mm. Diameter: 2.0 mm to 2.3 mm.

Pedicel.—Length: 30.0 mm to 32.0 mm. Diameter: 2.4 mm to 2.6 mm. Texture: Smooth. Color: Yellow-green (RHS 145B and 145C) and very light purple (RHS 76C) 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

'PHALHYLDO' differs from female parent plant '01-3469' (unpatented) in that 'PHALHYLDO' has a medium curvature of the lateral lobe and a small area of overcolor on the lateral sepals, whereas '01-3469' has a strong curvature of the lateral lobe and no overcolor on the lateral sepals. Additionally, 'PHALHYLDO' has shorter whiskers than '01-3469'.

'PHALHYLDO' differs from male parent plant '21232-04' (unpatented) in that 'PHALHYLDO' has a medium curvature of the lateral lobe, white whiskers, and a small area of overcolor on the lateral sepals, whereas '21232-04' has a weak curvature of the lateral lobe, white whiskers with light yellow tips, and a medium area of overcolor on the lateral sepals.

'PHALHYLDO' is most similar to the commercial *Phalaenopsis* plants named 'PHALHADOT' (unpatented) and 'PHALZIFY' (unpatented). 'PHALHYLDO' differs from the commercial variety 'PHALHADOT' in that 'PHALHYLDO' has rounded petal apexes, whereas 'PHALHADOT' has emarginated petal apexes. Additionally, 'PHALHYLDO' has longer leaves than 'PHALHADOT'.

'PHALHYLDO' differs from the commercial variety 'PHALZIFY' in that 'PHALHYLDO' has white whiskers and a medium curvature of the lateral lobe, whereas 'PHALZIFY' has yellow whiskers and a strong curvature of the lateral lobe. Additionally, 'PHALHYLDO' has narrower apical lobes than 'PHALZIFY'.

I claim:

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

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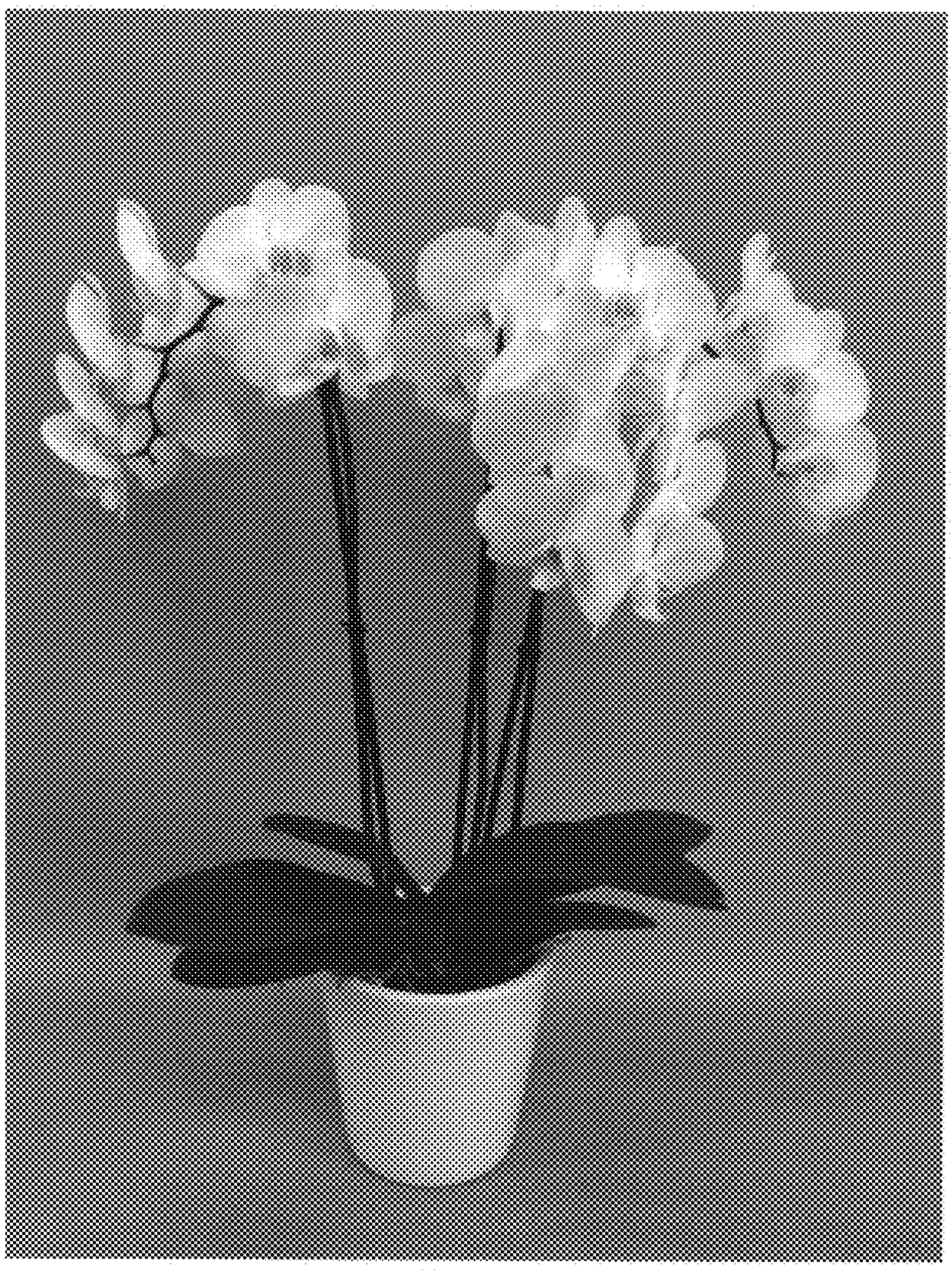

FIG. 1

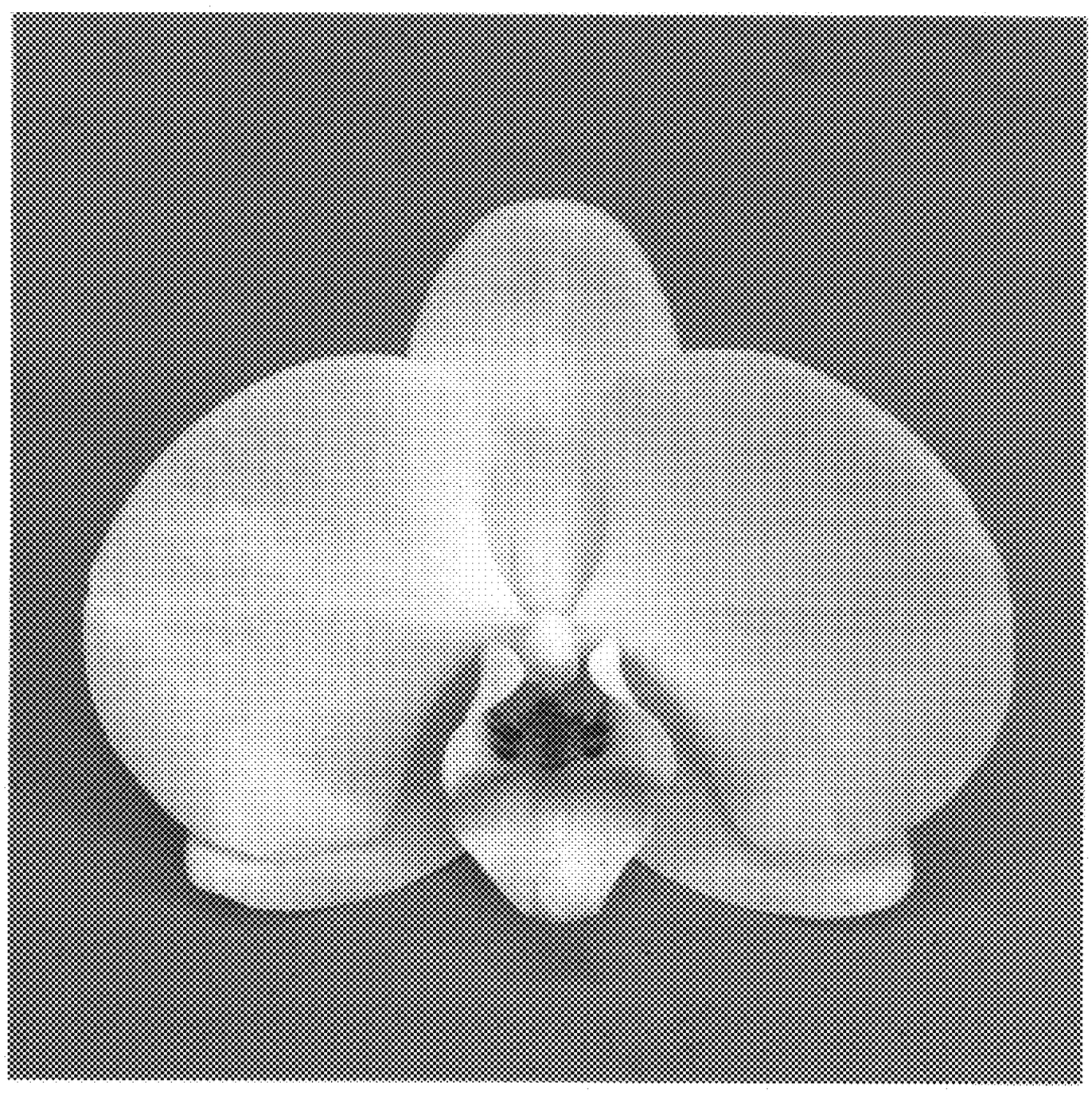

FIG. 2

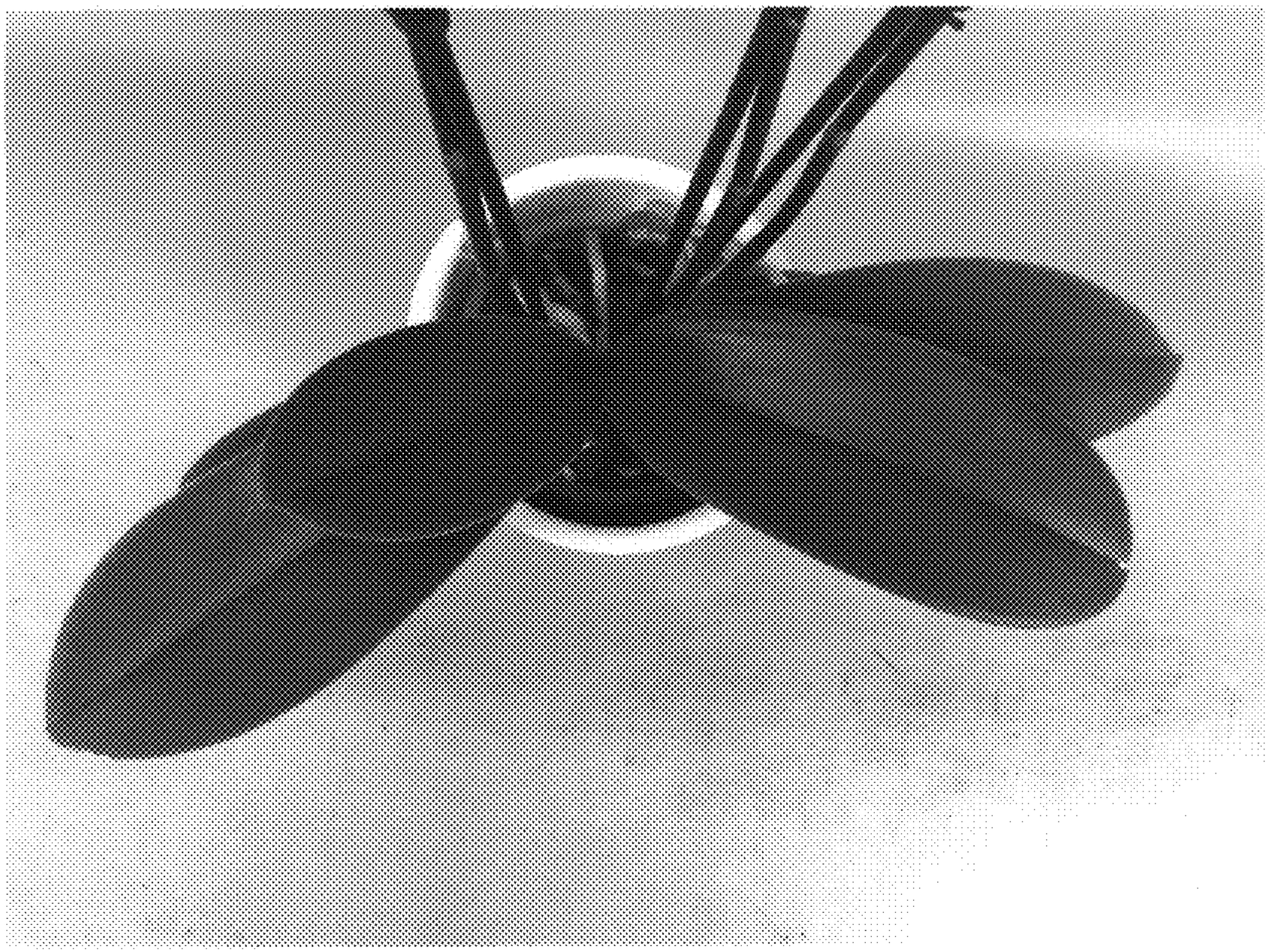

FIG. 3