

US00PP31480P2

(12) **United States Plant Patent**
Van Swieten

(10) **Patent No.:** **US PP31,480 P2**
(45) **Date of Patent:** **Feb. 25, 2020**

(54) **PHALAEOPSIS ORCHID PLANT NAMED
'PHALGILAQ'**

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

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

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

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

(*) 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.: **16/501,176**

(22) Filed: **Mar. 1, 2019**

(51) **Int. Cl.**
A01H 5/02 (2018.01)
A01H 6/62 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./311**

(58) **Field of Classification Search**
USPC **Plt./263.1, 311**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP30,395 P2 * 4/2019 Van Swieten A01H 5/02
Plt./311

OTHER PUBLICATIONS

EU Community Plant Variety Rights Application No. 2017/1104,
Application n°A201701200, filed Apr. 24, 2017, 8 pages.

EU Community Plant Variety Office Official Gazette, 3.2017, Jun.
15, 2017, cover page and pp. 37, 57.

EU Community Plant Variety Rights Certificate on the Grant, EU
50170, Sep. 10, 2018, 2 pages.

EU Community Plant Variety Office Official Gazette, 6.2018, Dec.
15, 2018, cover page and p. 79.

* cited by examiner

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
'PHALGILAQ', particularly characterized by having white
flowers with greenish-yellow lips, 1 to 2 peduncles that are
long and sturdy, leaves that are oblong, and is propagated by
meristem tissue culture, is disclosed.

3 Drawing Sheets

1

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

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
'PHALGILAQ'.

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, large, white flowers with greenish-yellow lips,
suitable for potted plant production.

The new *Phalaenopsis* plant 'PHALGILAQ' is a result of
cross-pollination made by the inventor in January 2009 in
Bleiswijk, The Netherlands, of the proprietary female, or
seed parent, *Phalaenopsis* hybrid '01-1988' (unpatented)
with the proprietary male, or pollen parent, *Phalaenopsis*
hybrid '6541-01' (unpatented).

The new *Phalaenopsis* was selected by the inventor as a
single plant within the progeny of the stated cross-pollina-
tion in a controlled greenhouse in Bleiswijk, The Nether-
lands, in January 2012. Asexual reproduction of the new

2

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 suc-
cessive generations.

Plant Breeder's Rights for this variety have been applied
for in Europe on Apr. 24, 2017, by Applicant who obtained
the subject matter disclosed directly from the Inventor.
'PHALGILAQ' 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 distinguish-
ing characteristics of this new cultivar when grown under
normal horticultural practices in Bleiswijk, The Nether-
lands, and can be used to distinguish 'PHALGILAQ' as a
new and distinct variety of *Phalaenopsis* plant:

- 1) White flowers with greenish-yellow lips;
- 2) 1 to 2 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 accom-
panying photographs which show the overall plant habit

including blooms, buds, 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 January 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, buds, and foliage of 'PHALGILAQ'.

FIG. 2 shows a close-up of a flower of 'PHALGILAQ'.

FIG. 3 shows an overhead view of the leaves of 'PHALGILAQ'.

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of 'PHALGILAQ'. 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 January 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.—'PHALGILAQ'.

Parentage:

Female parent.—*Phalaenopsis* cultivar '01-1988' (unpatented).

Male parent.—*Phalaenopsis* cultivar '6541-01' (Unpatented).

Propagation:

Type.—Meristem tissue culture.

Roots:

Root description.—Greyed-green (between RHS 190B and 190C) colored roots with branching lateral roots having light green (RHS 152B) 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 57.0 cm to 62.0 cm.

Width (measured from leaf tips).—About 25.0 cm to 27.0 cm.

Vigor.—Moderate.

Leaves:

Mature leaves.—Quantity per plant: 7 to 9 leaves are produced before flowering. Length (fully expanded): 18.0 cm to 21.0 cm. Width: 6.0 cm to 7.0 cm. Shape: Oblong. 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 (upper surface): Rough. Texture (lower surface): Smooth. Thickness: 2.2 mm to 2.5 mm. Venation: Pattern: Parallel. Color of the mid-vein: Upper surface: RHS 146A. Lower surface: RHS 146B.

Peduncle:

Quantity per plant.—1 to 2.

Number of flowers per peduncle.—8 to 12.

Length.—57.0 cm to 62.0 cm.

Diameter.—5.1 mm to 5.6 mm.

Strength.—Strong.

Aspect.—Upright to slightly pendant.

Texture.—Smooth.

Color.—Mix of green (RHS 146B) and brown (RHS N200A).

Internode length.—4.0 cm to 5.0 cm.

Inflorescence description:

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

Inflorescence size.—Height (from base to tip): 200.0 mm to 270.0 mm. Diameter: 140.0 mm to 160.0 mm.

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

Flower.—Height: 85.0 mm to 90.0 mm. Diameter: 103.0 mm to 108.0 mm. Depth of lip: 24.0 mm to 26.0 mm.

Flower longevity.—On the plant: 13 to 20 weeks.

Fragrance.—Absent.

Flower bud.—Average size: Large. Length: 24.0 mm to 26.0 mm. Width: 19.0 mm to 21.0 mm. Shape: Egg shaped. Color: Light yellow-green (RHS 145C) with a touch of light purplish-red (RHS N77A).

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Rounded asymmetric. Margin: Slightly undulated. Length (from base to tip): 44.0 mm to 46.0 mm. Width: 61.0 mm to 63.0 mm. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Absent. Lower surface: Basic color: White (RHS NN155C). Over color: Absent.

Dorsal sepal.—Shape: Broad elliptic. Apex: Obtuse symmetric. Margin: Entire. Length (from base to tip): 49.0 mm to 51.0 mm. Width: 36.0 mm to 38.0 mm. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Absent. Lower surface: Basic color: White (RHS NN155C). Over color: Light yellow-green (RHS 157A) and slightly very light purple (RHS 76B).

Lateral sepals.—Shape: Ovate. Apex: Obtuse asymmetric. Margin: Entire. Length (from base to tip): 39.0 mm to 41.0 mm. Width: 22.0 mm to 24.0 mm.

Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Light yellow-green (RHS 145D). Lower surface: Basic color: White (RHS NN155C). Over color: Light yellow-green (between RHS 145C and 145D) and very light purple (RHS 76B) toward margin.

Labellum (lip).—Whiskers: Present. Length of whiskers: 29.0 mm to 31.0 mm. Color of whiskers: White (RHS NN155C) with light greenish-yellow tips (RHS 1C). 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: Undulated. Length: 21.0 mm to 23.0 mm. Width: 15.0 mm to 17.0 mm. Color: Upper surface: Dark orange stripes (RHS 175B) at the base; white (RHS NN155C) and light greenish-yellow (RHS 153C) toward the front. Lower surface: White (RHS NN155C); yellow (RHS 153D) on one side toward the front.

Apical lobe.—Shape: Triangular. Margin: Entire. Length: 23.0 mm to 25.0 mm. Width: 26.0 mm to 28.0 mm. Color: Upper surface: Brown stripes (RHS 175A) and greenish-yellow (RHS 151B) at the base. Lower surface: White (RHS NN155C); greenish-yellow wings; yellow-green middle vein (RHS 151C).

Callus.—Average size: Medium. Height: 6.0 mm to 7.0 mm. Length: 6.0 mm to 7.0 mm. Width: 4.0 mm to 5.0 mm. Color: Yellow (RHS 7A); dotted (RHS 175A).

Reproductive organs:

Column.—Length: 8.0 mm to 10.0 mm. Diameter: 6.0 mm to 6.3 mm. Color: White (RHS NN155C).

Pollinia.—Quantity: 2. Diameter: 1.0 mm to 1.2 mm. Color: Orange (RHS 25A).

Ovary.—Length: 11.0 mm to 13.0 mm. Diameter: 3.0 mm to 3.3 mm. Color: Light yellow-green (RHS 145D) and very light purple (RHS 76C) toward the flower.

Pedicel.—Length: 34.0 mm to 36.0 mm. Diameter: 3.5 mm to 3.8 mm. Color: Slightly dark brown (RHS

N199B) at the base; yellow-green (RHS 145A and 145D); 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

‘PHALGILAQ’ differs from female parent plant ‘01-1988’ (unpatented) in that ‘PHALGILAQ’ has moderately elongated leaf bases, whereas ‘01-1988’ has very elongated leaf bases. Additionally, ‘PHALGILAQ’ has smaller flowers, longer whiskers and narrower petals than ‘01-1988’.

‘PHALGILAQ’ differs from male parent plant ‘6541-01’ (unpatented) in that ‘PHALGILAQ’ has larger flowers, shorter whiskers and wider petals than ‘6541-01’.

‘PHALGILAQ’ is most similar to the commercial *Phalaenopsis* plants named ‘PHALFOUDI’ (U.S. Plant Pat. No. 29,453) and ‘PHALFOWIC’ (U.S. Plant Pat. No. 29,245). ‘PHALGILAQ’ differs from the commercial variety ‘PHALFOUDI’ in that ‘PHALGILAQ’ has obtuse unequal leaf apexes and peduncles that are a mix of green and brown, whereas ‘PHALFOUDI’ has rounded leaf apexes and peduncles that are green. Additionally, ‘PHALGILAQ’ has longer whiskers than ‘PHALFOUDI’.

‘PHALGILAQ’ differs from the commercial variety ‘PHALFOWIC’ in that ‘PHALGILAQ’ has white whiskers with light greenish-yellow tips, whereas ‘PHALFOWIC’ has greenish-yellow whiskers. Additionally, ‘PHALGILAQ’ has larger flowers and longer whiskers than ‘PHALFOWIC’.

‘PHALGILAQ’ differs from the commercial variety ‘PHALFUBNE’ (U.S. Plant Pat. No. 30,395) in that ‘PHALGILAQ’ has narrower leaves, longer whiskers, and narrower petals than ‘PHALFUBNE’.

I claim:

1. A new and distinct variety of *Phalaenopsis* plant named ‘PHALGILAQ’, substantially as described and illustrated herein.

* * * * *



FIG. 1

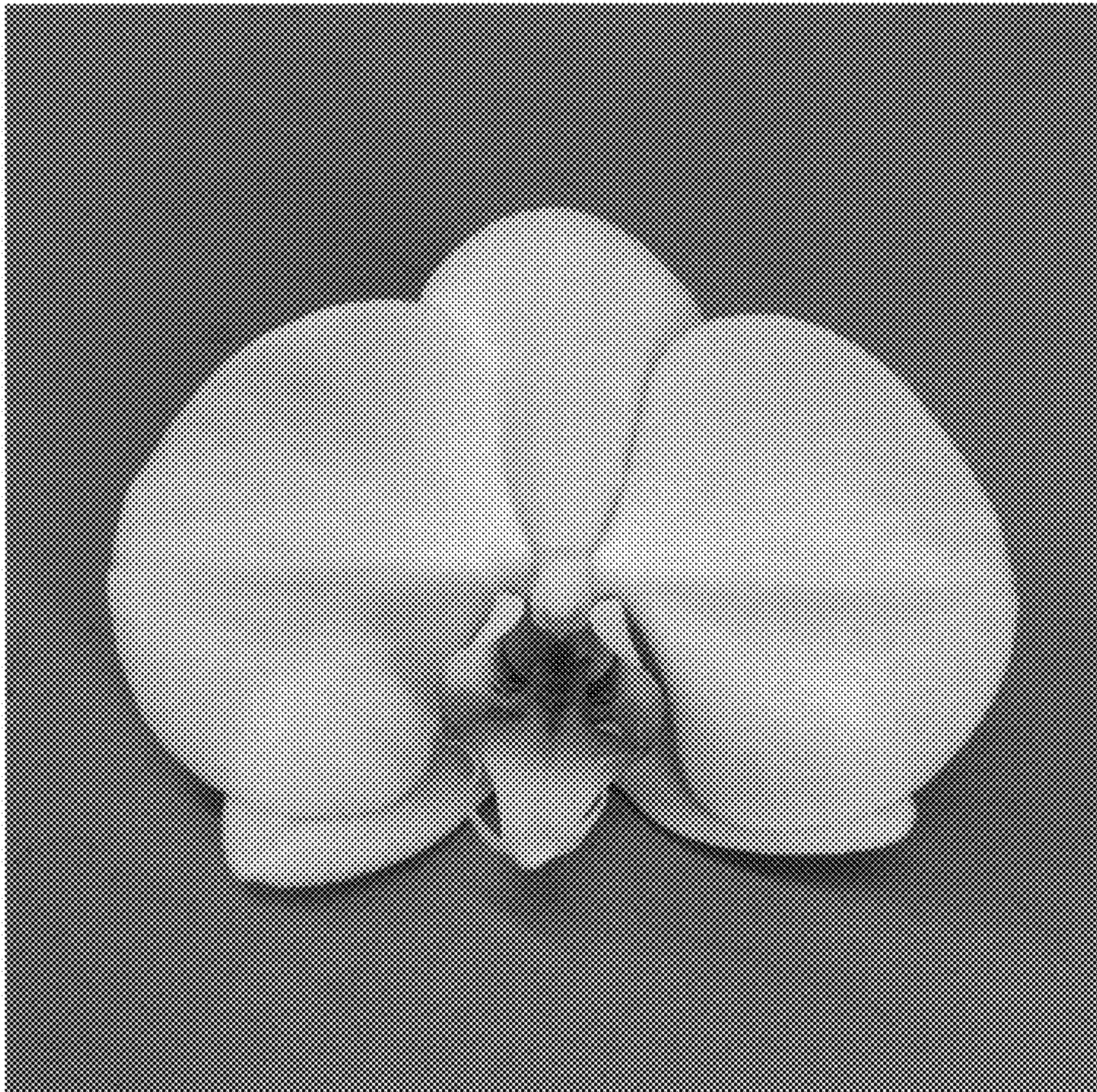


FIG. 2

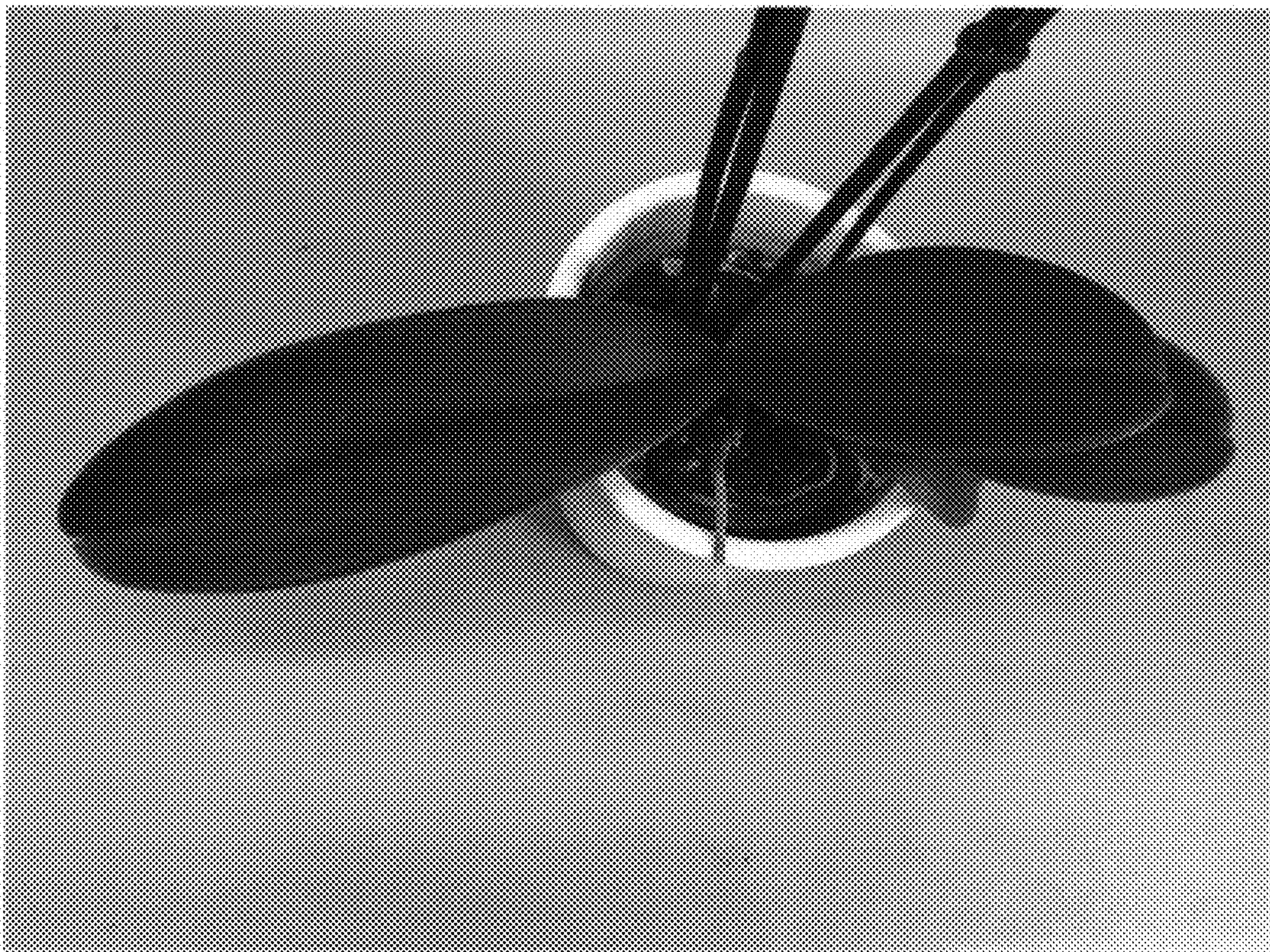


FIG. 3