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Van Swieten

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

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

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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A01H 5/02 (2018.01)
A01H 6/62 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./311**
CPC *A01H 6/62* (2018.05)

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

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(57) **ABSTRACT**

A new and distinct variety of *Phalaenopsis* plant named
'PHALIOURG', particularly characterized by white, small
flowers with greenish-yellow and white lips, a flat flower
shape in lateral view, 10 to 12 leaves, acute leaf apexes, and
is propagated by meristem tissue culture, is disclosed.

3 Drawing Sheets

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Genus and species: *Phalaenopsis* hybrid.

Variety denomination: 'PHALIOURG'.

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
'PHALIOURG'.

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

The new *Phalaenopsis* plant 'PHALIOURG' is a result of
cross-pollination made by the inventor in August 2012 in
Bleiswijk, the Netherlands, of the proprietary female, or
seed parent, *Phalaenopsis* hybrid '01-3479' (unpatented)
with the proprietary male, or pollen parent, *Phalaenopsis*
hybrid '30896-12' (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 June 2015. Asexual reproduction of the new
Phalaenopsis plant by meristem tissue culture since 2016 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.

Community Plant Variety Rights for this variety have
been applied for in the European Union on Sep. 19, 2019
(Application no. 2019/2295), by Applicant who obtained the
subject matter disclosed directly from the inventor. 'PHALIOURG'
has not been made publicly available or sold anywhere in the world prior to the effective filing date

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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
'PHALIOURG' directly from the inventor.

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 Netherlands,
and can be used to distinguish 'PHALIOURG' as a new and
distinct variety of *Phalaenopsis* plant:

- 1) White, small flowers with greenish-yellow and white
lips;
- 2) Flower shape in lateral view is flat;
- 3) Plant has 10 to 12 leaves; and
- 4) Leaf apex is acute.

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 conven-
tional photographic procedures. The photographs were taken
in a greenhouse in Bleiswijk, the Netherlands, from
45-week-old plants in October 2020. Colors in the photo-
graphs 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 'PHALIOURG'.

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

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

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinc-
tive characteristics of 'PHALIOURG'. 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 October 2020 on flowering plants which were planted in 9-centimeter (diameter) pots. After in vitro propagation, the plants were grown in nursery trays for 18-20 weeks, followed by transplantation to 9-centimeter pots and grown in a greenhouse between 27° C. to 29° C. for 25 weeks, continued by a cooling period of 6 weeks between 18° C. to 20° C. and 11 weeks in a greenhouse of 21° C. Flowering occurs after 42 weeks in 9-centimeter pots.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Orchidaceae.

Botanical.—*Phalaenopsis* hybrid.

Common name.—Moth orchid.

Variety name.—‘PHALIOURG’.

Parentage:

Female parent.—*Phalaenopsis* cultivar ‘01-3479’ (unpatented).

Male parent.—*Phalaenopsis* cultivar ‘30896-12’ (unpatented).

Propagation:

Type.—Meristem tissue culture.

Roots:

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

Plant:

Commercial crop time to flowering.—Following asexual propagation (in vitro), the rooted cuttings grow for 18-20 weeks. After transplantation into 9-cm pots, the plants are finished after 40 to 42 weeks.

Growth habit of the peduncle.—Upright to slightly pendent with panicle inflorescence.

Height (from soil level to top of inflorescence).—Approximately 35.0 cm to 40.0 cm.

Width (measured from leaf tips).—About 26.0 cm to 28.0 cm.

Vigor.—Strong.

Leaves:

Mature leaves.—Quantity per plant: 10 to 12 leaves are produced before flowering. Length (fully expanded): 13.0 cm to 15.0 cm. Width: 5.0 cm to 6.0 cm. Position of the broadest part of the leaf: Toward apex. Shape: Obovate. Base shape: Moderately elongated. Apex: Acute unequal. Leaf blade angle with the petiole (measured from the horizontal position): Between 20 degrees and 40 degrees. Leaf margin: Entire. Color: Upper surface: RHS 146A with a hint of brown (RHS 200C) at the margin toward the tip. Lower surface: RHS 146B with a hint of brown (RHS 200C). Texture (both upper and lower sur-

faces): Smooth. Thickness: 2.1 mm to 2.4 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.—20 to 30.

Length.—35.0 cm to 40.0 cm.

Diameter.—4.0 mm to 5.0 mm.

Strength.—Strong.

Aspect.—Upright to slightly pendent.

Texture.—Smooth.

Color.—Mix of yellow-green (RHS 145C) and reddish-brown (RHS 200B).

Internode length.—1.0 cm to 2.0 cm.

Inflorescence description:

Appearance.—Upright to slightly pendent, panicle 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): 210.0 mm to 260.0 mm.

Flowering time.—First flowers can be expected 7 to 8 months after planting in a 9-cm pot.

Flower.—Height: 42.0 mm to 47.0 mm. Diameter: 55.0 mm to 60.0 mm. Depth of lip: 20.0 mm to 22.0 mm.

Flower longevity.—On the plant: 11 to 13 weeks.

Flower shape in lateral view.—Flat.

Fragrance.—Absent.

Flower bud.—Average size: Small to medium. Length: 15.0 mm to 17.0 mm. Width: 7.0 mm to 9.0 mm. Shape: Egg shaped. Color: Yellow-green (RHS 145C) with a hint of diluting purplish-red (RHS N77B).

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Obtuse asymmetric. Margin: Weakly undulated. Length (from base to tip): 27.0 mm to 29.0 mm. Width: 28.0 mm to 30.0 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): Not applicable. Density of netting of the petals (upper surface): None. Color of the netting (upper surface): Not applicable.

Dorsal sepal.—Shape: Elliptic. Apex: Obtuse symmetric. Margin: Entire. Length (from base to tip): 28.0 mm to 30.0 mm. Width: 17.0 mm to 19.0 mm. Position of the broadest part of the dorsal sepals: At 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: Very light purple shade (something in between RHS 76B and 76C). Number of spots and stripes on the dorsal sepals (upper surface): None. Color of spots and stripes on the dorsal sepals (upper surface): Not applicable. Density of netting of the dorsal sepals (upper surface): None. Color of the netting: Not applicable.

Lateral sepals.—Shape: Ovate. Apex: Obtuse asymmetric. Margin: Entire. Length (from base to tip):

28.0 mm to 30.0 mm. Width: 16.0 mm to 18.0 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: Absent. Lower surface: Basic color: White (RHS NN155C). Over color: Very light purple (something in between RHS 76B and 76C) and light yellow-green (something in between RHS 145C and 145D). Number of spots and stripes on the lateral sepals (upper surface): None. Color of spots and stripes on the lateral sepals (upper surface): Not applicable. Density of netting of the lateral sepals (upper surface): None. Color of the netting (upper surface): Not applicable.

Labellum (lip).—Whiskers: Present. Length of whiskers: 4.0 mm to 6.0 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: Undulated (widely wavy). Length: 15.0 mm to 17.0 mm. Width: 10.0 mm to 12.0 mm. Color: Upper surface: Greenish-yellow (RHS 151B) from base toward margin on one side; purplish-red stripes (RHS 71A) at the base; white (RHS NN155C) toward the tip. Lower surface: Hint of greenish-yellow (RHS 151B) from base toward margin on one side; white (RHS NN155C) toward the tip. Number of spots and stripes on the lateral lobe: Few stripes at the base. Color of spots and stripes on the lateral lobe: RHS 71A. Density of netting of the lateral lobe: None. Color of the netting: Not applicable.

Apical lobe.—Shape: Ovate. Margin: Entire. Length: 15.0 mm to 17.0 mm. Width: 12.0 mm to 14.0 mm. Color: Upper surface: Reddish-orange margin (RHS 176C) at the base; greenish-yellow (RHS 151B) at the base and white (RHS NN155C) toward whiskers. Lower surface: Reddish-orange margin (RHS 176C) at the base; hint of greenish-yellow (RHS 151B) at the base toward wings and white (RHS NN155C) toward whiskers. Number of spots and stripes on the apical lobe: None. Color of spots and stripes on the apical lobe: Not applicable. Density of netting of the apical lobe: None. Color of the netting: None.

Callus.—Average size: Small. Height: 4.0 mm to 5.0 mm. Length: 4.0 mm to 5.0 mm. Width: 3.0 mm to 4.0 mm. Color: Greenish-yellow (RHS 5A); dotted (RHS 176B).

Reproductive organs:

Column.—Length: 8.0 mm to 10.0 mm. Diameter: 4.0 mm to 5.0 mm. Color: White (RHS NN155C).

Pollinia.—Quantity: 2. Diameter: 0.7 mm to 0.9 mm. Color: Orange (RHS 24A).

Ovary.—Length: 10.0 mm to 12.0 mm. Diameter: 1.9 mm to 2.2 mm.

Pedicel.—Length: 33.0 mm to 35.0 mm. Diameter: 2.3 mm to 2.5 mm. Texture: Smooth. Color: Hint of brown (RHS 200C) at the base; light yellow-green (RHS 145B); very light purple (something in between RHS 76B and 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

The female parent plant of 'PHALIOURG', cultivar '01-3479' (unpatented), is no longer in existence, therefore a meaningful comparison cannot be made.

'PHALIOURG' differs from the male parent plant '30896-12' (unpatented) in that 'PHALIOURG' has obtuse petal apexes and white columns, whereas '30896-12' has emarginated to rounded petal apexes and light yellow-green columns.

'PHALIOURG' is most similar to the commercial *Phalaenopsis* plants named 'PHALDRIDOP' (U.S. Plant Pat. No. 28,980) and 'PHALDUEL' (U.S. Plant Pat. No. 28,256). 'PHALIOURG' differs from the commercial variety 'PHALDRIDOP' in that 'PHALIOURG' has ovate apical lobes, obtuse dorsal sepal apexes, and acute leaf apexes, whereas 'PHALDRIDOP' has triangular apical lobes, rounded dorsal sepal apexes, and rounded leaf apexes. Additionally, 'PHALIOURG' has narrower leaves and shorter whiskers than 'PHALDRIDOP'.

'PHALIOURG' differs from the commercial variety 'PHALDUEL' in that 'PHALIOURG' has ovate apical lobes and lateral sepals with no over color, whereas 'PHALDUEL' has triangular apical lobes and lateral sepals with over color. Additionally, 'PHALIOURG' has shorter whiskers than 'PHALDUEL'.

I claim:

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

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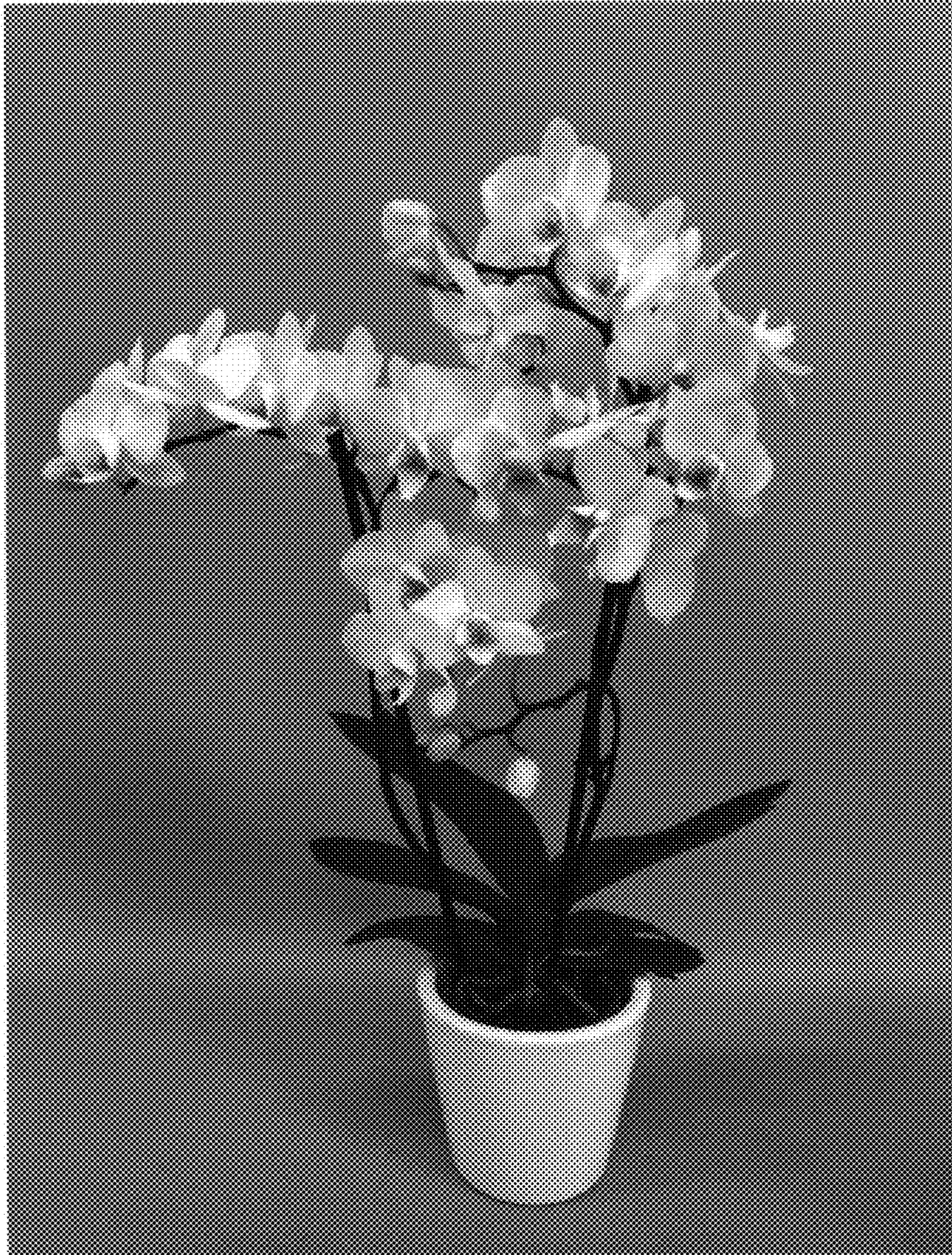


FIG. 1

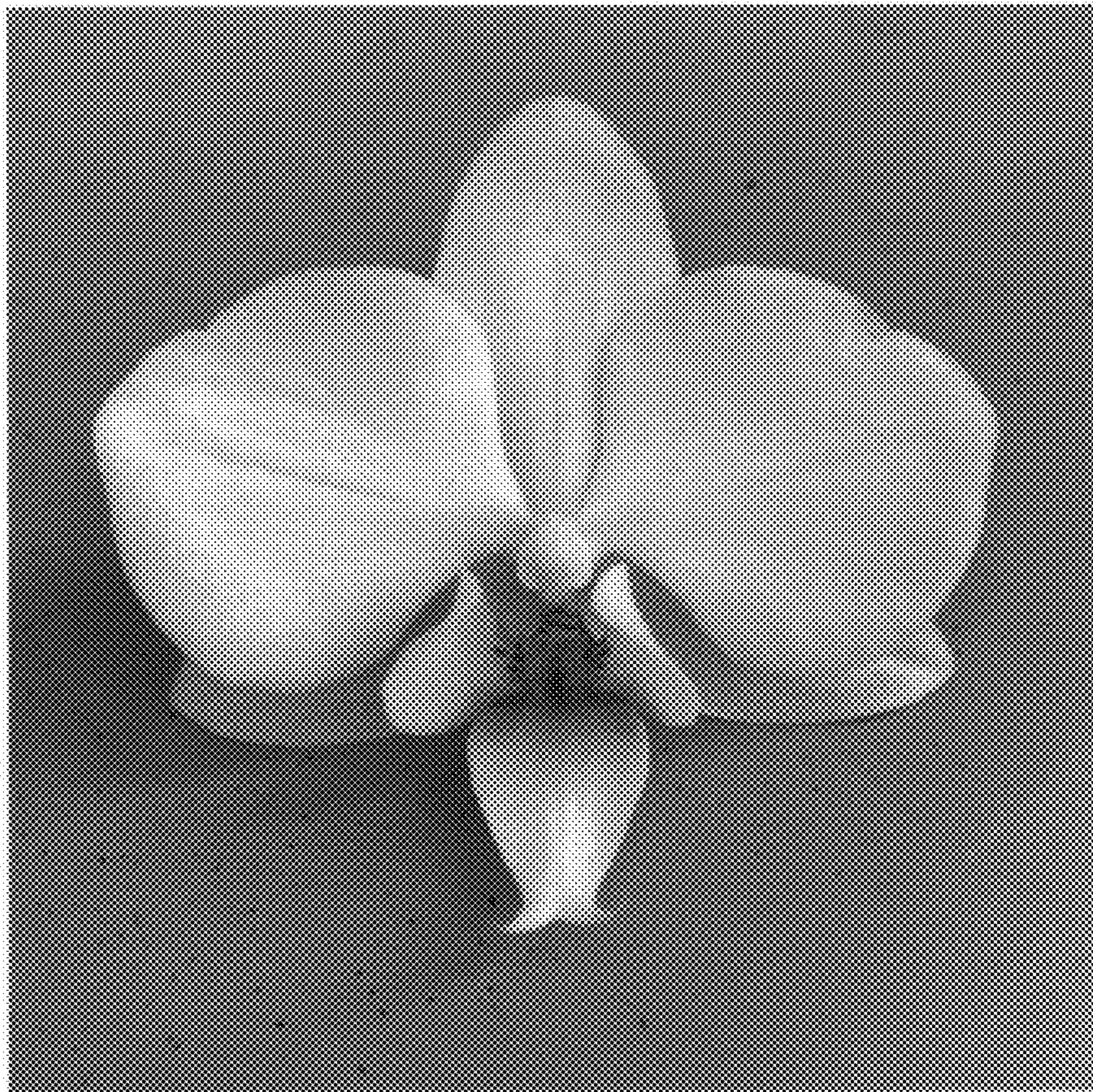


FIG. 2

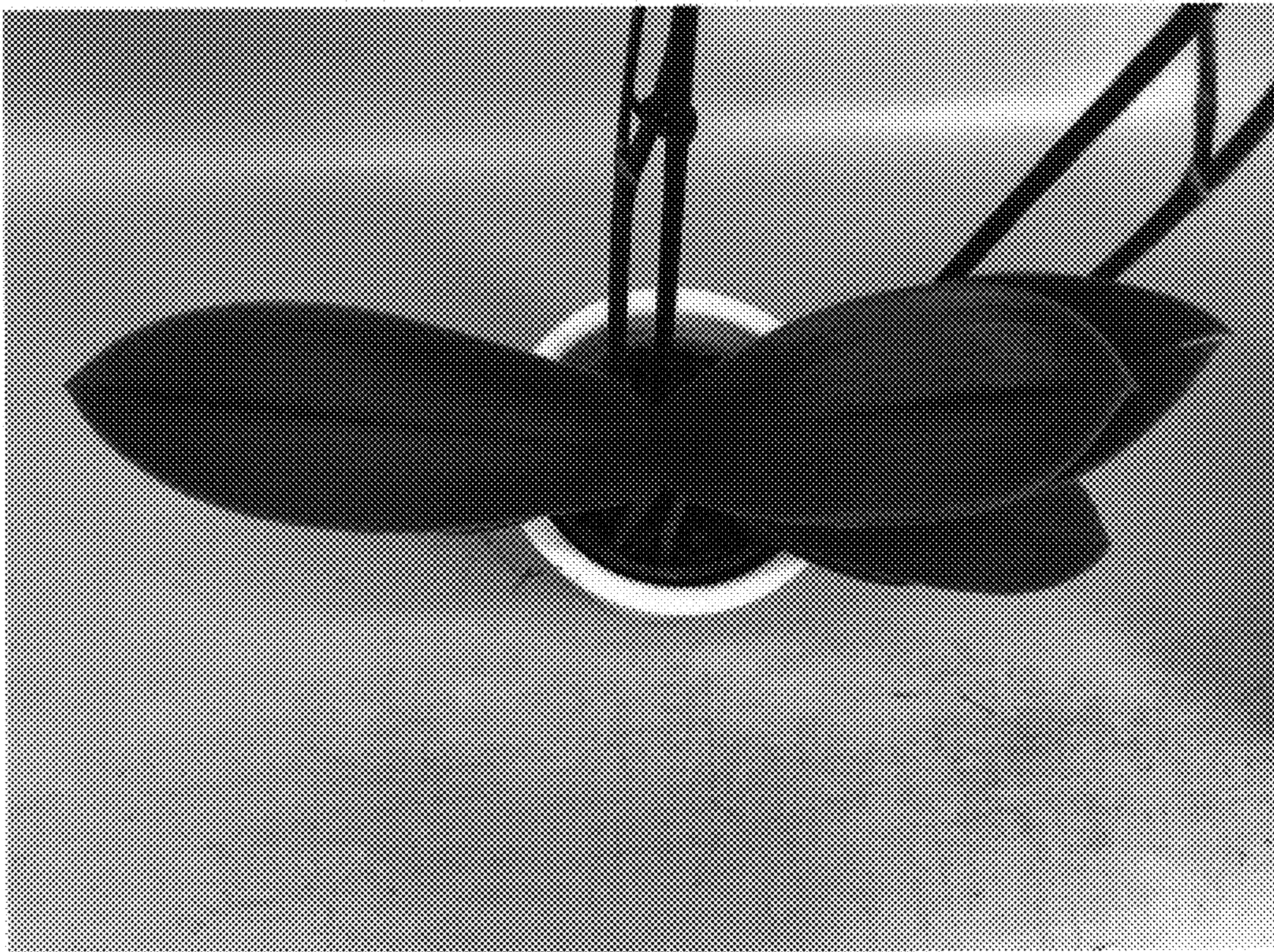


FIG. 3