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Van Swieten

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

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

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(57) **ABSTRACT**

A new and distinct variety of *Phalaenopsis* plant named 'PHALGOWIJ', particularly characterized by having very white flowers with a yellow lip, 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

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

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 'PHALGOWIJ'.

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 attractive and very white flowers with a yellow lip, suitable for potted plant production.

The new *Phalaenopsis* plant 'PHALGOWIJ' is a result of cross-pollination made by the inventor in July 2008 in Bleiswijk, The Netherlands of the proprietary female, or seed parent, *Phalaenopsis* hybrid '01-1849' (unpatented) with the proprietary male, or pollen parent, *Phalaenopsis* hybrid '22444-0010' (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 November 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 Apr. 24, 2017. 'PHALGOWIJ' 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

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normal horticultural practices in Bleiswijk, The Netherlands and can be used to distinguish 'PHALGOWIJ' as a new and distinct variety of *Phalaenopsis* plant.

- 1) Very white flowers with a yellow lip;
- 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 November 2017. 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 'PHALGOWIJ'.

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

FIG. 3 shows a close-up of the leaves of 'PHALGOWIJ'.

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of 'PHALGOWIJ'. 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 November 2017 on 50-week old plants which were planted from a nursery tray in 12 centimeter (diameter) 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.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Orchidaceae.

Botanical.—*Phalaenopsis* hybrid.

Common name.—Moth orchid.

Variety name.—‘PHALGOWIJ’.

Parentage:

Female parent.—*Phalaenopsis* cultivar ‘01-1849’ (unpatented).

Male parent.—*Phalaenopsis* cultivar ‘22444-0010’ (unpatented).

Propagation:

Type.—Meristem tissue culture.

Roots:

Root description.—Greyed-green colored roots (RHS 190B/C) with branching lateral roots having green colored root tips (RHS 146C).

Plant:

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

Growth habit of peduncle.—Standard, green leaves, panicle.

Height (from soil level to top of inflorescence).—Approximately 59.0 cm to 64.0 cm.

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

Vigor.—Moderate.

Leaves:

Mature leaves.—Quantity per plant: 6 to 8 leaves are produced before flowering. Length (fully expanded): 16.0 cm to 18.0 cm. Width: 7.0 cm to 8.0 cm. Shape: Oblong. Base shape: Moderately elongated. Apex: Obtuse to rounded unequal. Leaf blade angle with the petiole (measured from the horizontal position): Between 30 degrees and 40 degrees. Leaf margin: Entire. Color: Upper surface: RHS 147A. Lower surface: RHS 147B. Texture: Rough. Thickness: 2.3 mm to 2.6 mm. Venation: Pattern: Parallel. Color of the midvein: Upper surface: RHS 147A. Lower surface: RHS 147B.

Peduncle:

Quantity per plant.—1 to 3.

Number of flowers per peduncle.—10 to 15.

Length.—59.0 cm to 64.0 cm.

Diameter.—5.0 mm to 6.0 mm.

Strength.—Moderate.

Aspect.—Upright to slightly pendant.

Texture.—Smooth.

Color.—Green (RHS 146B).

Internode length.—5.0 cm to 5.5 cm.

Callosities.—None.

Inflorescence description:

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

Inflorescence size.—Height (from base to tip): 230.0 mm to 260.0 mm.

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

Flower.—Height: 80.0 mm to 85.0 mm. Diameter: 90.0 mm to 95.0 mm. Depth of lip: 22.0 mm to 24.0 mm.

Flower longevity.—On the plant: 9 to 14 weeks.

Fragrance.—Absent.

Flower bud.—Average size: Large. Length: 25.0 mm to 27.0 mm. Width: 20.0 mm to 22.0 mm. Shape: Egg shaped. Color: Light green (RHS 145C).

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Rounded asymmetric. Margin: Slightly undulated. Length (from base to tip): 43.0 mm to 45.0 mm. Width: 55.0 mm to 58.0 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: Elliptic. Apex: Emarginated symmetric. Margin: Entire. Length (from base to tip): 46.0 mm to 48.0 mm. Width: 33.0 mm to 35.0 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.

Lateral sepals.—Shape: Ovate. Apex: Obtuse asymmetric. Margin: Entire. Length (from base to tip): 46.0 mm to 48.0 mm. Width: 28.0 mm to 30.0 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.

Labellum (lip).—Whiskers: Present. Length of whiskers: 20.0 mm to 22.0 mm. Color of whiskers: White (RHS NN155C) at the base and yellow (RHS 7A) toward the tip. 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: 20.0 mm to 22.0 mm. Width: 15.0 mm to 17.0 mm. Color: White (RHS NN155C); few red-purple (RHS 59B) stripes at the base and yellow (RHS 12A) on one side.

Apical lobe.—Shape: Triangular. Margin: Entire. Length: 22.0 mm to 24.0 mm. Width: 24.0 mm to 26.0 mm. Color: Light yellow-green (RHS 5A) at the base with light brown (RHS 172B/C) margin; white (RHS NN155C) toward whiskers.

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 14A) dotted (RHS 172B).

Reproductive organs:

Column.—Length: 8.0 mm to 10.0 mm. Diameter: 5.5 mm to 5.8 mm. Color: White (RHS NN155C).

Pollinia.—Quantity: 2. Diameter: 0.9 mm to 1.1 mm. Color: Orange (RHS 24A).

Ovary.—Length: 12.0 mm to 14.0 mm. Diameter: 2.3 mm to 2.5 mm.

Pedicel.—Length: 32.0 mm to 34.0 mm. Diameter: 2.5 mm to 2.7 mm. Color: Light green (RHS 145C) at the base and white (RHS 157A) 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

‘PHALGOWIJ’ differs from female parent plant ‘01-1849’ (unpatented) in that ‘PHALGOWIJ’ has medium curvature of the lateral lobe, whereas ‘01-1849’ has strong curvature of the lateral lobe. Additionally, ‘PHALGOWIJ’ has slightly smaller flowers and shorter whiskers than ‘01-1849’.

‘PHALGOWIJ’ differs from male parent plant ‘22444-0010’ (unpatented) in that ‘PHALGOWIJ’ has larger flowers and longer whiskers than ‘22444-0010’.

‘PHALGOWIJ’ is most similar to the commercial *Phalaenopsis* plants named ‘PHALCARDOK’ (U.S. Plant Pat. No. 25,447) and ‘PHALFMACON’ (U.S. Plant Pat. No. 29,614). ‘PHALGOWIJ’ differs from the commercial variety ‘PHALCARDOK’ in that ‘PHALGOWIJ’ has a round petal apex and no overcolor on the sepal lower surfaces, whereas ‘PHALCARDOK’ has a mucronate petal apex and overcolor on the sepal lower surfaces. Additionally, ‘PHALGOWIJ’ has smaller flowers and shorter whiskers than ‘PHALCARDOK’.

‘PHALGOWIJ’ differs from the commercial variety ‘PHALMACON’ in that ‘PHALGOWIJ’ has no overcolor on the sepal lower surfaces, whereas ‘PHALMACON’ has overcolor on the sepal lower surfaces. Additionally, ‘PHALGOWIJ’ has shorter whiskers than ‘PHALMACON’.

I claim:

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

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FIG. 1

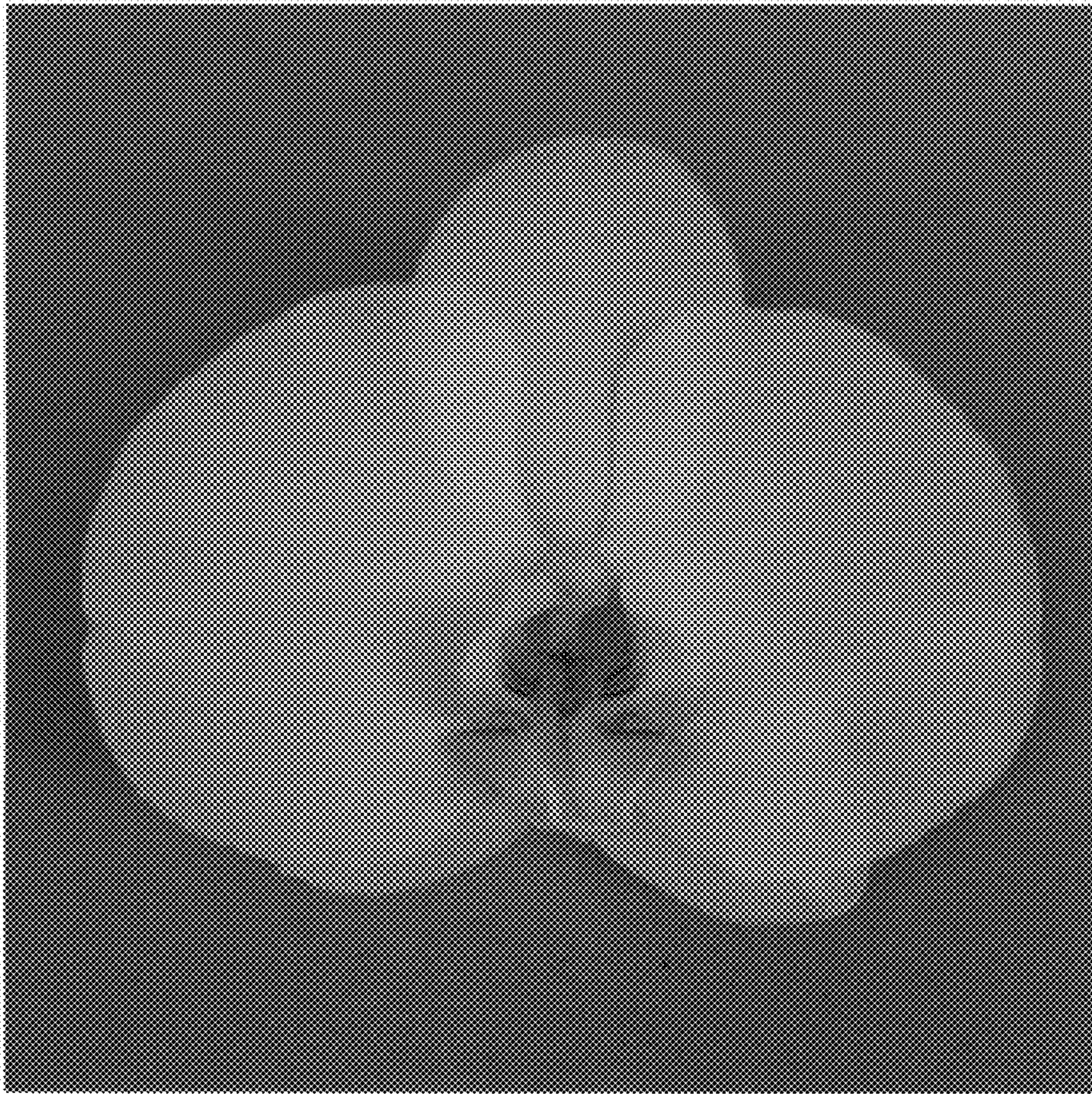


FIG. 2

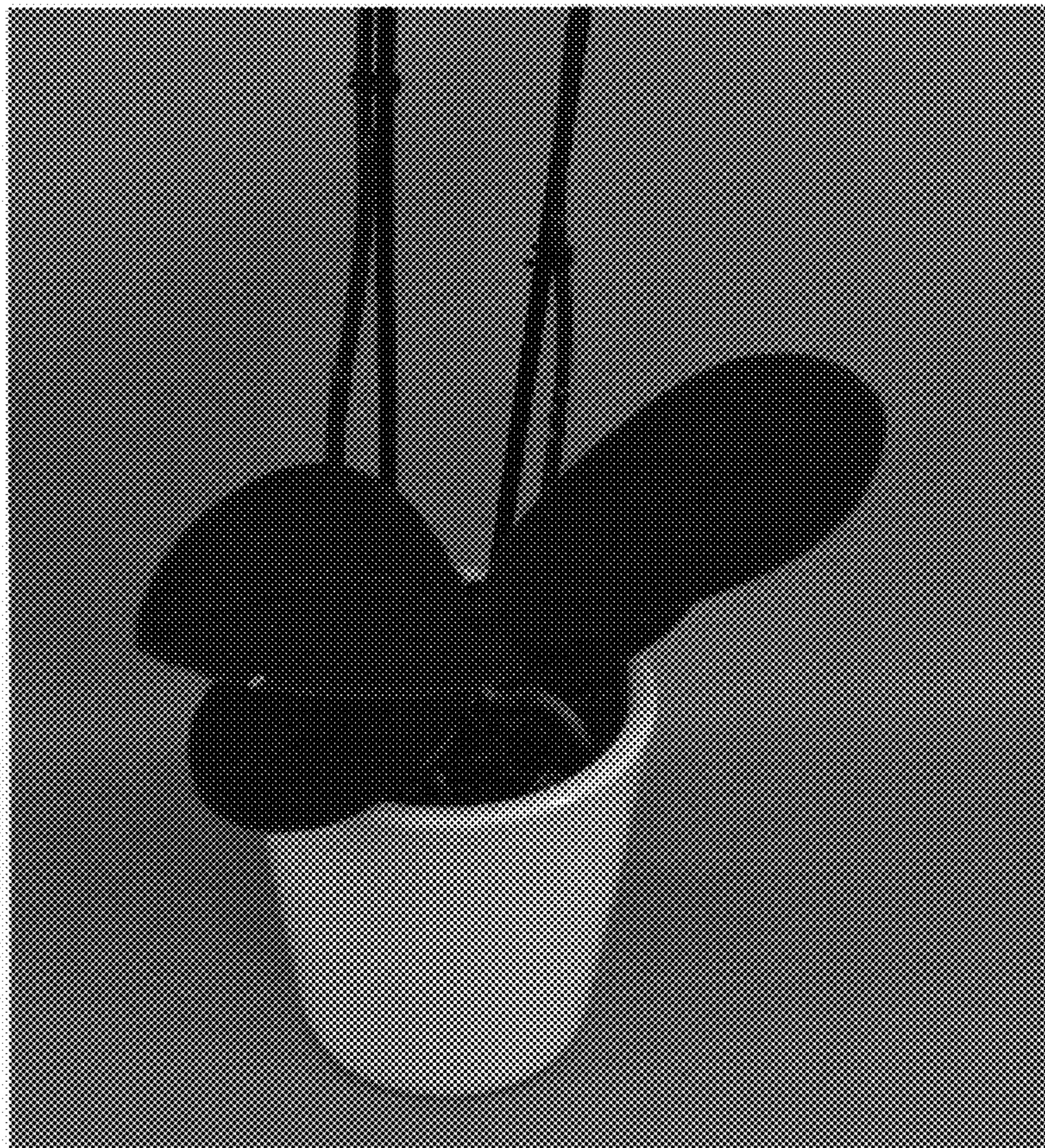


FIG. 3