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Van Swieten

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

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

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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A01H 6/62 (2018.01)

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

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

(56) **References Cited**

PUBLICATIONS

UPOV hit on a *Phalaenopsis* plant named 'PHALGATYH', QZ PBR 20171083, filed Apr. 24, 2017.*

* cited by examiner

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(57) **ABSTRACT**

A new and distinct variety of *Phalaenopsis* plant named 'PHALGATYH', particularly characterized by having very light purple striped flowers with extra-large light reddish purple lips, 1 to 3 peduncles that are long and moderate, leaves that are narrow oblong, and is propagated by meristem tissue culture, is disclosed.

3 Drawing Sheets

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

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 'PHALGATYH'.

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 very light purple striped flowers with extra-large light reddish purple lips, suitable for potted plant production.

The new *Phalaenopsis* plant 'PHALGATYH' is a result of cross-pollination made by the inventor in April 2010 in Bleiswijk, The Netherlands of the proprietary female, or seed parent, *Phalaenopsis* hybrid '21232-01' (unpatented) with the proprietary male, or pollen parent, *Phalaenopsis* hybrid '01-3401' (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 February 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.

Plant Breeder's Rights for this variety have not been applied for to date. 'PHALGATYH' 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 'PHALGATYH' as a new and distinct variety of *Phalaenopsis* plant.

1) Very light purple striped flowers with extra-large light reddish purple lips;
2) 1 to 3 peduncles;
3) Peduncle is long and moderate; and
4) Shape of the leaf is narrow oblong.

DESCRIPTION OF THE PHOTOGRAPHS

This new *Phalaenopsis* plant is illustrated by the accompanying 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 July 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, buds and foliage of 'PHALGATYH'.

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

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

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of 'PHALGATYH'. 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 July 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 (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. Flowering occurs after 50-weeks in a 12 centimeter pot.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Orchidaceae.

Botanical.—*Phalaenopsis* hybrid.

Common name.—Moth orchid.

Variety name.—'PHALGATYH'.

Parentage:

Female parent.—*Phalaenopsis* cultivar '21232-01' (unpatented).

Male parent.—*Phalaenopsis* cultivar '01-3401' (unpatented).

Propagation:

Type.—Meristem tissue culture.

Roots:

Root description.—Greyed-green colored roots (RHS 190B/C) with branching lateral roots having light green (RHS 145C) 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 34.0 cm to 36.0 cm.

Vigor.—Moderate.

Leaves:

Mature leaves.—Quantity per plant: 8 to 9 leaves are produced before flowering. Length (fully expanded): 16.0 cm to 18.0 cm. Width: 5.0 cm to 6.0 cm. Shape: Narrow oblong. Base shape: Moderately elongated. Apex: Acute. Leaf blade angle with the petiole (measured from the horizontal position): Between 20 degrees and 35 degrees. Leaf margin: Entire. Color: Upper surface: RHS 147A. Lower surface: RHS 147B. Texture (upper surface): Rough. Thickness: 3.0 mm to 3.3 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.—9 to 12.

Length.—45.0 cm to 50.0 cm.

Diameter.—4.7 mm to 5.0 mm.

Strength.—Moderate.

Aspect.—Upright to slightly pendant.

Texture.—Smooth.

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

Internode length.—4.0 cm to 5.0 cm.

Callosities.—None.

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 190.0 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: 83.0 mm to 88.0 mm. Depth of lip: About 5.0 mm.

Flower longevity.—On the plant: 9 to 12 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 and 151D) striped (RHS 186B to 186C).

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Rounded 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: Very light purple (RHS 76B). Over color: White edge (RHS NN155C) and diluting light reddish purple stripes (RHS N78D). Lower surface: Basic color: Very light purple (RHS 76C). Over color: Very light purple at the base (RHS 76C) with diluting light reddish purple stripes (RHS N78D) and small white edge (RHS NN155C).

Dorsal sepal.—Shape: Elliptic. Apex: Emarginated symmetric. Margin: Entire. Length (from base to tip): 40.0 mm to 42.0 mm. Width: 26.0 mm to 28.0 mm. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Purplish pink stripes (RHS N78C). Lower surface: Basic color: Very light purple (RHS 76C). Over color: Slightly yellow-green at the base (RHS 145C); white edge (RHS NN155C).

Lateral sepals.—Shape: Ovate. Apex: Obtuse asymmetric. Margin: Slightly twisted. Length (from base to tip): 43.0 mm to 45.0 mm. Width: 26.0 mm to 28.0 mm. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Very light yellow-green at the base (RHS 145C); very light purple (RHS 76B); purplish pink stripe (RHS N78C). Lower surface: Basic color: Very light purple (RHS 76C). Over color: Light yellow-green (RHS 145C) and diluting light reddish purple stripes (RHS N78D).

Labellum (*lip*).—Overall shape: Three lobed with callus at central junction of the lateral lobes and base of the apical lobe. The apical lobe is terminated by 2 whiskers. Lateral lobes and apical lobe are connected.

Lateral lobe.—Margin: Undulated. Length: 22.0 mm to 24.0 mm. Width: 26.0 mm to 28.0 mm. Color: Light green-yellow at the base (RHS 2C to 2D) with reddish brown spots (RHS 174A); light reddish purple toward the margin (RHS N78D); very light purple edge (RHS 76C).

Apical lobe.—Margin: Entire. Length: 20.0 mm to 22.0 mm. Width: 24.0 mm to 26.0 mm. Color: Light reddish purple (RHS N78D) with very light purple wings (RHS 76B). Whiskers: Present. Length of whiskers: 7.0 mm to 9.0 mm. Color of whiskers: Light reddish purple (RHS N78D) with very light purple tips (RHS 76C).

Callus.—Average size: Large. Height: 8.0 mm to 9.0 mm. Length: 7.0 mm to 8.0 mm. Width: 4.0 mm to 5.0 mm. Color: Green (RHS 150B to 150C) with red dots (RHS 178A).

Reproductive organs.—Column: Length: 9.0 mm to 11.0 mm. Diameter: 5.6 mm to 5.8 mm. Color: White at the base and at the tip (RHS NN155C) and reddish purple region in the middle (RHS N78C). Pollinia: Quantity: 2. Diameter: 0.9 mm to 1.1 mm. Color: Orange (RHS 25A). Ovary: Length: 9.0 mm to 11.0 mm. Diameter: 2.4 mm to 2.6 mm. Color: Very light purple (RHS N75D). Pedicel: Length: 37.0 mm to 39.0 mm. Diameter: 2.7 mm to 3.0 mm. Color: Dark red at the base (RHS 187A); light green (RHS 145C) and very light purple (RHS N75D) 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

'PHALGATYH' differs from female parent plant '21232-01' (unpatented) in that 'PHALGATYH' has an emarginated symmetric dorsal sepal apex, and flowers with a main color of very light purple and having a striped and edged pattern, whereas '21232-01' has a rounded to slightly obtuse dorsal sepal apex, and flowers with a main color of white and having an even pattern. Additionally, 'PHALGATYH' has smaller flowers than '21232-01'.

'PHALGATYH' differs from male parent plant '01-3401' (unpatented) in that 'PHALGATYH' has flowers with a main color of very light purple and having a striped and edged pattern, whereas '01-3401' has flowers with a main color of reddish purple and having a striped and center pattern. Additionally, 'PHALGATYH' has smaller flowers than '01-3401'.

'PHALGATYH' is most similar to the commercial *Phalaenopsis* plants named 'PHALGAQCI' (unpatented) and 'PHALDANCIP' (unpatented). 'PHALGATYH' differs from the commercial variety 'PHALGAQCI' in that 'PHALGATYH' has a column that is white at the base and at the tip and reddish purple in the middle, and a striped and edged flower pattern having light reddish purple stripes and white edges, whereas 'PHALGAQCI' has a column that is reddish purple, and a striped and spotted flower pattern having reddish purple stripes and spots. Additionally, 'PHALGATYH' has longer whiskers than 'PHALGAQCI'.

'PHALGATYH' differs from the commercial variety 'PHALDANCIP' in that 'PHALGATYH' has an extra-large lip with the apical lobe and lateral lobes connected, a column that is white at the base and at the tip and reddish purple in the middle, and a striped and edged flower pattern having light reddish purple stripes and white edges, whereas 'PHALDANCIP' has a typical lip with the apical and lateral lobes separated, a column that is white with a small light reddish purple region toward the tip, and a striped flower pattern having purplish pink stripes. Additionally, 'PHALGATYH' has shorter whiskers than 'PHALDANCIP'.

I claim:

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

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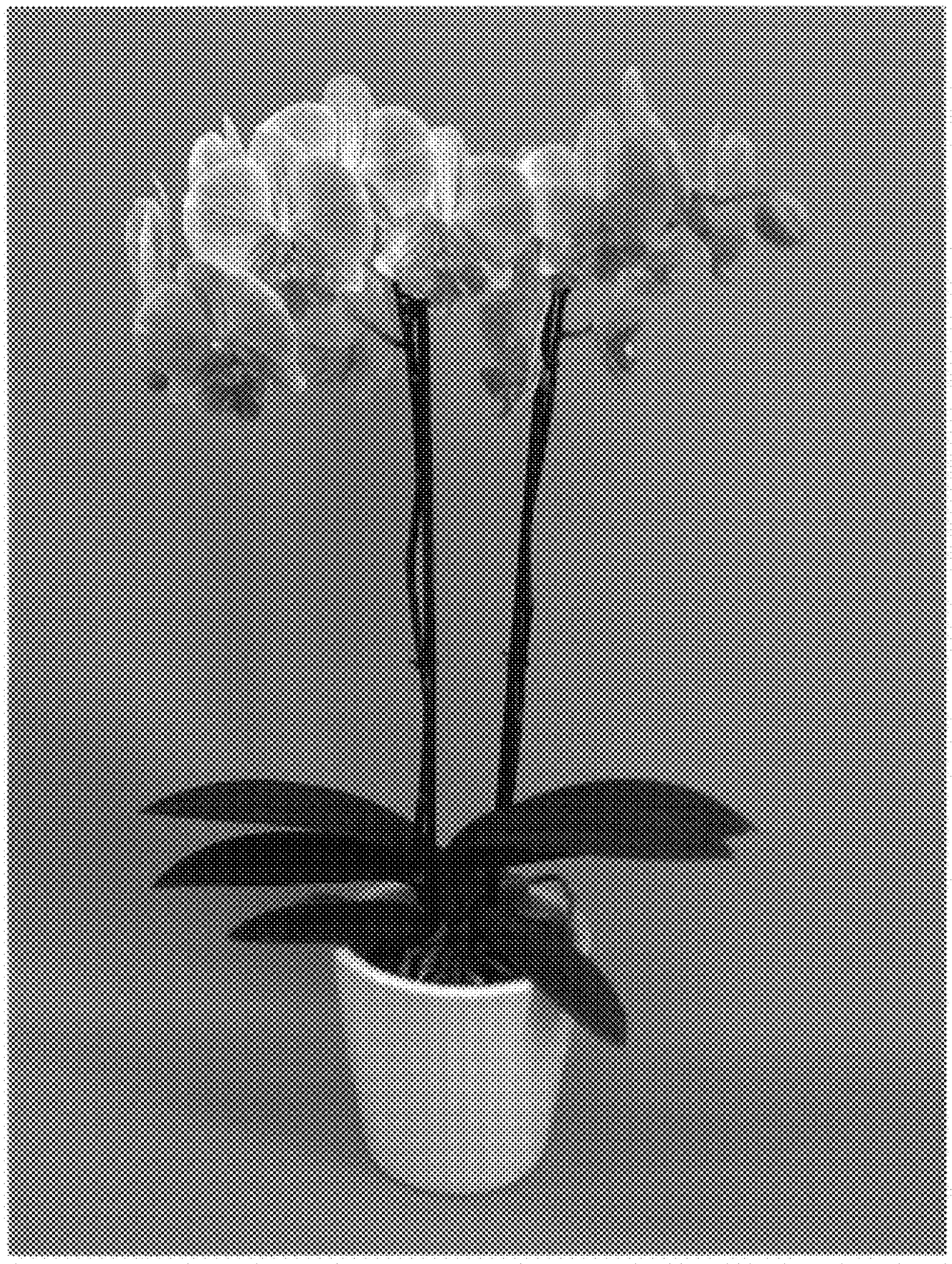

FIG. 1

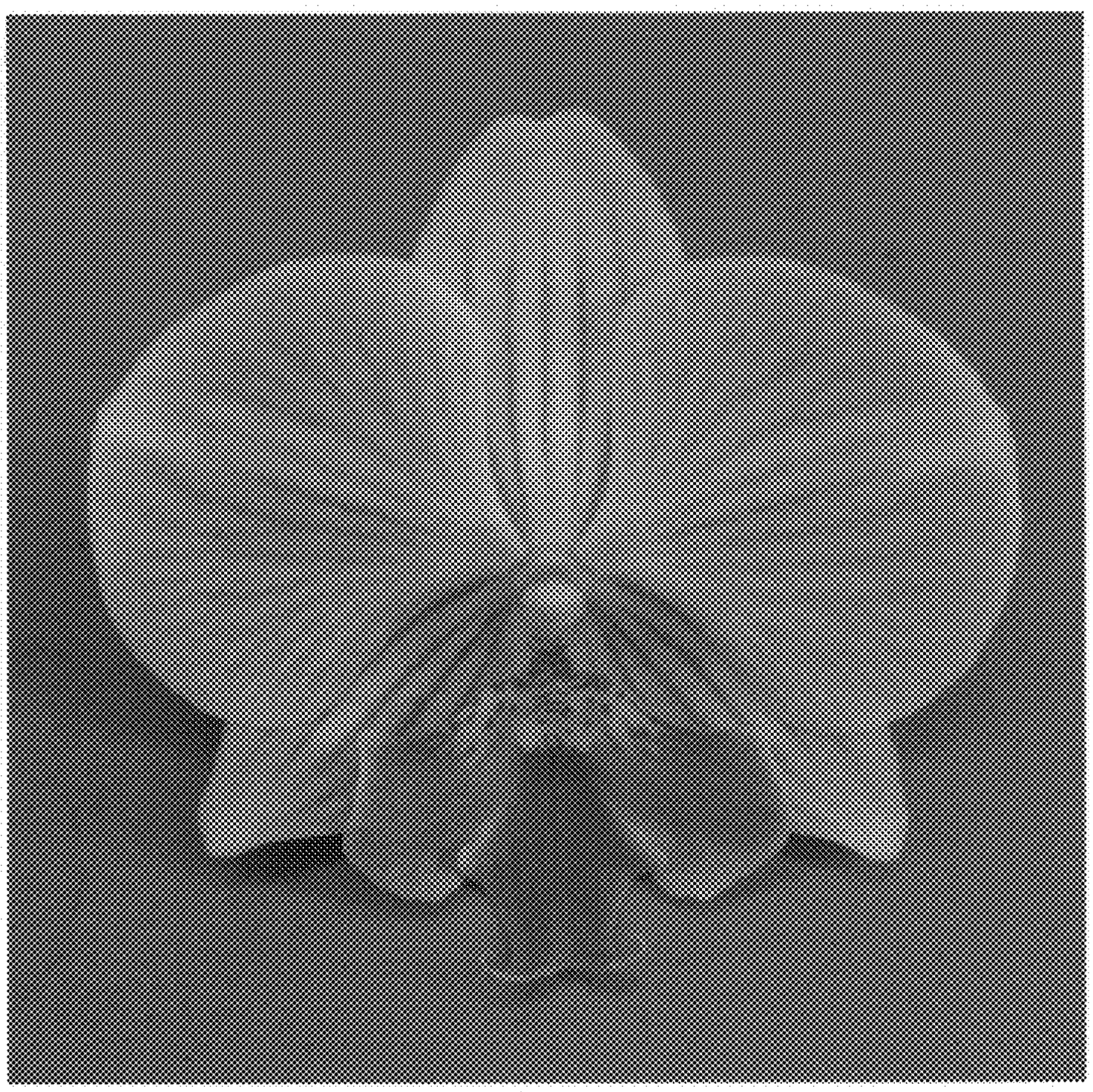

FIG. 2

FIG. 3