



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

(10) **Patent No.:** **US PP27,205 P2**
(45) **Date of Patent:** **Sep. 27, 2016**

(54) **PHALAENOPSIS ORCHID PLANT NAMED**
‘PHALDETXIK’

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

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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.

(21) Appl. No.: **14/545,710**

(22) Filed: **Jun. 9, 2015**

(51) **Int. Cl.**
A01H 5/02 (2006.01)

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

(58) **Field of Classification Search**
USPC Plt./311
CPC A01H 5/02
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct variety of *Phalaenopsis* plant named
‘PHALDETXIK’, particularly characterized by having
white striped flowers, 1 to 2 peduncles, a peduncle that is
long and sturdy, leaves that are wide oblong and slightly
elongated, and is propagated by tissue culture is disclosed.

3 Drawing Sheets

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Genus and species: *Phalaenopsis* hybrid.
Variety denomination: ‘PHALDETXIK’.

BACKGROUND OF THE NEW PLANT

The present invention comprises a new and distinct cul-
tivar of *Phalaenopsis* plant, botanically known as *Phalae-*
nopsis of the Orchidaceae family, and hereinafter referred to
by the cultivar name ‘PHALDETXIK’.

Phalaenopsis comprises a genus of about 60 species of
herbaceous perennials many of which, or the hybrids
thereof, are suitable for cultivar in the home or greenhouse.
Phalaenopsis is predominantly epiphytic or rock dwelling,
and is native to tropical Asia, the Malay Archipelago, and
Oceania. The species typically has 2-ranked, fleshy, oblong
or elliptic leaves affixed to a short central stem (monopodial
growth), which vary in size from 12 to 20 cm to over 60 cm.
The leaves may be entirely green or mottled with silver grey.

Phalaenopsis orchids, often referred to as ‘Moth Orchids’
in the horticultural trade, are frequently used to furnish cut
flowers for the florist trade or sold as flowering potted-plants
for home or interiorscape.

Phalaenopsis produces upright or pendent lateral racemes
or panicles, often with many showy flowers which open in
succession beginning with the lowermost. The flowers pos-
sess three sepals and three petals; the lateral ones being
alike. The lowermost petals, called the labellum, are three-
lobed and are often more brightly-colored than the other
flower segments. Flower colors include various shades of
pink, white, yellow, and red-brown.

Phalaenopsis orchids are typically propagated from
seeds. Asexual propagation of *Phalaenopsis* is often done
from off-shoots which arise from the lower bracts of the
inflorescence. The resulting plants are detached from the
mother plants and may be planted in a suitable substrate.

The new *Phalaenopsis* ‘PHALDETXIK’ is particularly
characterized by its attractive and unique white striped
flowers, economical propagation by tissue culture, rapid
growth, and a plant dimension suitable for packaging and
shipping to the market.

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‘PHALDETXIK’ is a product of a planned breeding
program conducted by the inventor in Bleiswijk, The Neth-
erlands.

The new *Phalaenopsis* ‘PHALDETXIK’ originated from
a cross made in April 2005 in Bleiswijk, The Netherlands.
The female parent is a pink striped and edged *Phalaenopsis*
pot plant named ‘16013-0002’ (unpatented), while the male
parent is a white *Phalaenopsis* pot plant named ‘01-1694’
(unpatented). A single plant was selected in October 2008
and has been asexually reproduced repeatedly by meristem
tissue culture in Bleiswijk, The Netherlands over a 3.5-year
period. The new variety has been found to retain its distinc-
tive characteristics through successive asexual propagations.

Asexual reproduction of ‘PHALDETXIK’ by tissue cul-
ture was first performed in September 2011 in Bleiswijk,
The Netherlands and has demonstrated that the new cultivar
is firmly fixed and retained through successive generations
of asexual reproduction.

Plant Breeder’s Rights for this variety have been applied
for in Europe on Sep. 30, 2014. ‘PHALDETXIK’ has not
been made publicly available or sold anywhere in the world
more than one year prior to the 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.

- 1) White striped flowers;
- 2) 1 to 2 peduncles;
- 3) Peduncle is long and sturdy;
- 4) The shape of the leaf is wide oblong and slightly
elongated; and
- 5) Plants are propagated by meristem tissue culture.

DESCRIPTION OF THE PHOTOGRAPHS

This new *Phalaenopsis* plant is illustrated by the accom-
panying 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 are of a 50-week old plant grown in a greenhouse in Bleiswijk, The Netherlands in February 2015.

FIG. 1 shows the overall plant habit, including blooms and foliage of 'PHALDETXIK'.

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

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

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of 'PHALDETXIK'. The data which define these characteristics were collected from asexual reproductions carried out in Bleiswijk, The Netherlands. The plant history was taken on 50-week old plants which were planted from a nursery tray in 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. Observations were made in February 2015. Color readings were taken under 4000-6000 lux natural light in the greenhouse. Color references are primarily to The R.H.S. Colour Chart of The Royal Horticultural Society of London (R.H.S.) (2001).

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Orchidaceae.

Botanical.—*Phalaenopsis* hybrid.

Common name.—*Phalaenopsis*.

Variety name.—'PHALDETXIK'.

Parentage:

Female parent.—*Phalaenopsis* cultivar '16013-0002' (unpatented).

Male parent.—*Phalaenopsis* cultivar '01-1694' (unpatented).

Propagation:

Type.—Tissue culture.

Plant:

Crop time (time to produce a finished flowering plant).—48 to 50 weeks for a 12 cm pot.

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

Height (including pot, including inflorescence).—60.0 cm to 70.0 cm.

Width (measured from leaf tips).—26.0 cm to 30.0 cm.

Vigor.—Strong.

Roots:

Root description.—Grey-green-colored roots with lightly branching lateral roots having grey-green colored root tips.

Leaves:

Mature leaves.—Quantity per plant: 5 to 7 leaves are produced before flowering. Length (fully expanded): 13.0 cm to 17.0 cm. Width: 9.5 cm to 10.5 cm. Shape: Wide oblong. Base shape: Slightly elongated. Apex: Unequal mucronate. Leaf blade angle with the petiole: Between 25 degrees and 40 degrees (measured from petiole to leaf). Leaf margin: Entire. Color: Upper surface: RHS 146A. Lower surface: RHS 146B. Texture: Slightly rough. Thickness: 2.4

mm to 2.8 mm. Venation: Pattern: Parallel. Color of the midvein: Upper surface: RHS 146A. Lower surface: RHS 146B.

Peduncle:

Quantity per plant.—1 to 2.

Number of flowers per peduncle.—9 to 14.

Length.—52.0 cm to 57.0 cm.

Diameter.—5.4 mm to 5.7 mm.

Strength.—Strong.

Aspect.—Upright.

Texture.—Slightly rough.

Color.—Green (RHS 146A) and brown (RHS 200B).

Internode length.—38.0 mm to 42.0 mm.

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): 200.0 mm to 240.0 mm. Diameter: 4.2 mm to 4.4 mm.

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

Flower.—Height: 90.0 mm to 95.0 mm. Diameter: 98.0 mm to 103.0 mm. Depth of lip: 20.0 mm to 23.0 mm.

Flower longevity.—On the plant: 12 to 14 weeks.

Fragrance.—Absent.

Petals.—Arrangement: Free. Shape: Wide semi-circular. Apex: Symmetric emarginated. Margin: Entire. Length (from base to tip): 43.0 mm to 46.0 mm. Width: 63.0 mm to 65.0 mm. Color (when fully opened): Main color: White (RHS 155C) with stripes (RHS 78B and 80B). At the base: White (RHS 155C).

Dorsal sepal.—Shape: Broad elliptic. Margin: Entire. Length (from base to tip): 46.0 mm to 48.0 mm. Width: 32.0 mm to 34.0 mm. Color (when fully opened): Main color: White (RHS 155C) with stripes and netting (RHS 78B and 80B). At the base: White (RHS 155C).

Lateral sepals.—Shape: Ovate. Margin: Entire, slightly twisted towards the center. Length (from base to tip): 48.0 mm to 50.0 mm. Width: 27.0 mm to 29.0 mm. Color (when fully opened): Main color: White (RHS 155C) with stripes and netting (RHS 78B and 80B). At the base: White (RHS 155C).

Labellum (lip).—Margin: Entire. Length: 20.0 mm to 22.0 mm. Width: 22.0 mm to 24.0 mm. Whiskers: Present. Length of whiskers: Long.

Lateral lobe.—Shape: Type V (as described in the International Union for the Protection of New Varieties of Plants (UPOV) Test Guidelines for *Phalaenopsis*). Color: Striped light purple (RHS 78A) with yellow (RHS 4A) and white edge (RHS 155C).

Apical lobe.—Shape: Triangular. Color: White (RHS 155C) with purple stripes (RHS 78A) and yellow flecks toward the callus.

Callus.—Color: Yellow (RHS 12A) dotted (RHS 183B).

Reproductive organs:

Arrangement.—The stamens, style and stigmas are fused into a single, short structure called the column, possessing one terminal anther with pollen grains united into pollinia, which are covered by an anther

cap. The stigma is located under the column behind the pollinia. The ovary is inferior with three carpels present.

Column.—Length: 8.5 mm to 9.5 mm. Diameter: 5.5 mm to 6.5 mm. Color: Light purple (RHS 78B).

Pollinia.—Quantity: 2. Size: 1.5 mm to 1.7 mm. Color: Orange (RHS 24A).

Ovary.—Length: Not observed. Diameter: Not observed.

*Pedice*l.—Length: 35.0 mm to 37.0 mm. Diameter: 3.1 mm to 3.3 mm.

Disease, pest, and stress resistance: No specific resistance or susceptibility observed.

Temperature tolerance: Tolerant to a low temperature of 15° C. and a high temperature about 30° C.

COMPARISON WITH PARENTAL AND COMMERCIAL VARIETIES

‘PHALDETXIK’ differs from female parent ‘16013-0002’ (unpatented) in that ‘PHALDETXIK’ has white flow-

ers with stripes and long whiskers, whereas ‘16013-0002’ has pink striped flowers and short whiskers. Additionally, ‘PHALDETXIK’ has a larger flower diameter than ‘16013-0002’.

‘PHALDETXIK’ differs from male parent ‘01-1694’ (unpatented) in that ‘PHALDETXIK’ has white flowers with stripes, whereas ‘01-1694’ has white flowers.

‘PHALDETXIK’ differs from commercial variety ‘PHALPNIZOK’ (unpatented) in that ‘PHALDETXIK’ has slightly elongated leaves and a green/brown peduncle, whereas ‘PHALPNIZOK’ has very elongated leaves and a brown peduncle. Additionally, ‘PHALDETXIK’ has a larger flower diameter than ‘PHALPNIZOK’.

I claim:

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

* * * * *



FIG. 1

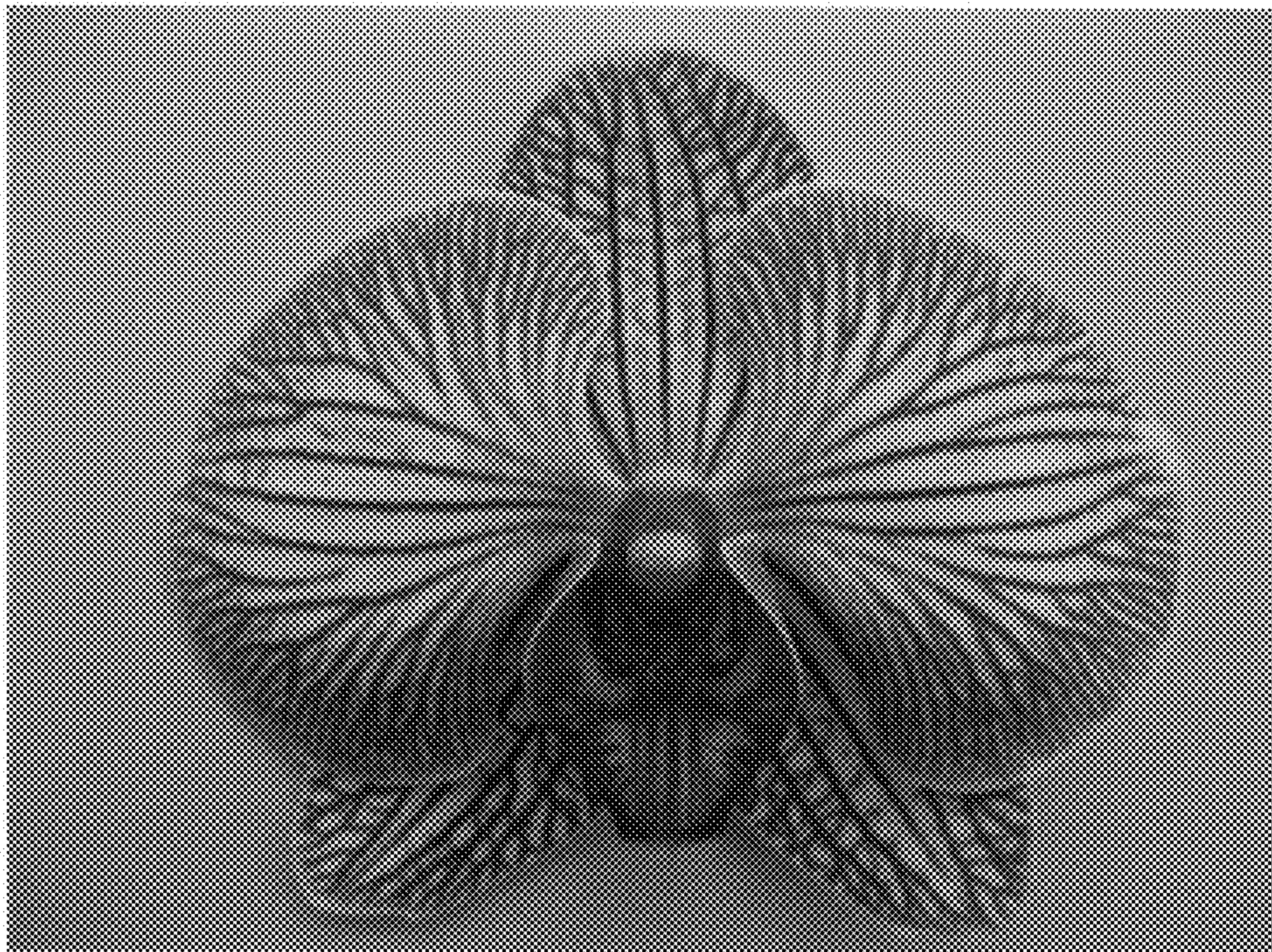


FIG. 2

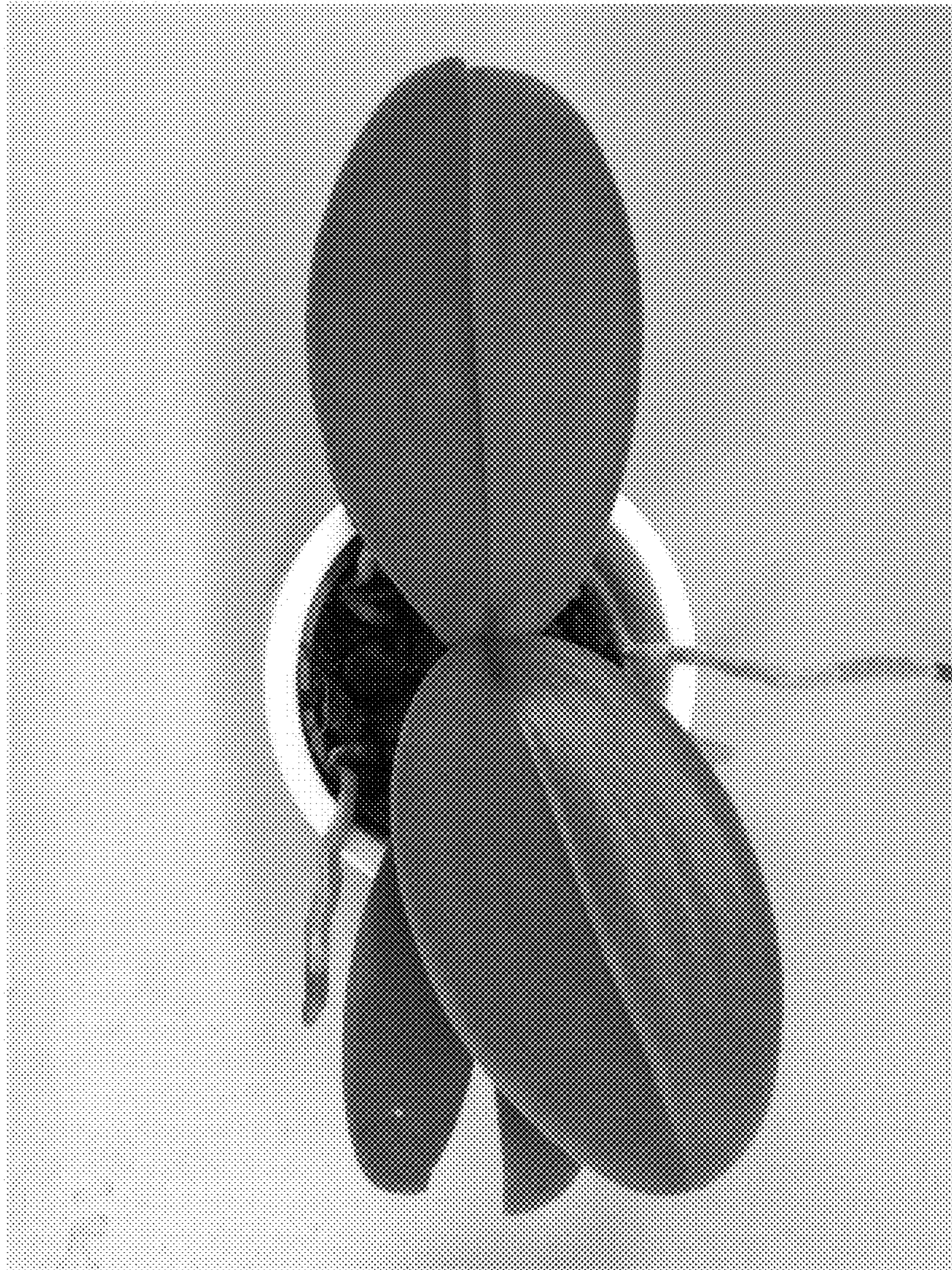


FIG. 3