



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

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(54) **PHALAEOPSIS ORCHID PLANT NAMED**
‘PHALDIMXAP’

(50) Latin Name: *Phalaenopsis*
Varietal Denomination: **PHALDIMXAP**

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(57) **ABSTRACT**

A new and distinct variety of *Phalaenopsis* plant named
‘PHALDIMXAP’, particularly characterized by purple flow-
ers with lighter center and dark purple lip, 2 to 3 peduncles, a
short, sturdy and branching inflorescence, dark green leaves
with narrow obovate shape, and propagation by tissue culture
is disclosed.

3 Drawing Sheets

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Genus and species: *Phalaenopsis*.
Variety denomination: ‘PHALDIMXAP’.

BACKGROUND OF THE NEW PLANT

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

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,
often with many showy flowers which open in succession
beginning with the lowermost. The flowers possess three
sepals and three petals; the lateral ones being alike. The
lowermost petals, called the labellum, is three-lobed and is
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 inflores-
cence. The resulting plants are detached from the mother
plants and may be planted in a suitable substrate.

The new *Phalaenopsis* ‘PHALDIMXAP’ is particularly
characterized by its attractive and unique purple flowers, eco-
nomical propagation by tissue culture, rapid growth, and a
plant dimension suitable for packaging and shipping to the
market.

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‘PHALDIMXAP’ is a product of a planned breeding pro-
gram conducted in Bleiswijk, The Netherlands.

The new *Phalaenopsis* ‘PHALDIMXAP’ originated from
a cross made in January 2004 in Bleiswijk, The Netherlands.
Both parents are unknown *Phalaenopsis* pot plants. A single
plant was selected in January 2007 and has been asexually
reproduced repeatedly by tissue culture in Bleiswijk, The
Netherlands over a 6-year period. The new variety has been
found to retain its distinctive characteristics through succes-
sive asexual propagations.

Asexual reproduction of ‘PHALDIMXAP’ by tissue cul-
ture was first performed in August 2009 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 Apr. 25, 2012. ‘PHALDIMXAP’ 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 distinguishing
characteristics of this new cultivar when grown under normal
horticultural practices in Bleiswijk, The Netherlands.

- 1) Purple flower with lighter center and dark purple lip;
- 2) 2 to 3 peduncles;
- 3) Inflorescence is short, sturdy and branching;
- 4) Dark green leaves with narrow obovate shape; and
- 5) Plants are propagated by 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, buds and foliage of the plant; the colors
shown are as true as can be reasonably obtained by conven-
tional photographic procedures. The photographs are of a
50-week old plant grown in a greenhouse in Bleiswijk, The
Netherlands in February 2013.

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

FIG. 2 shows a close-up of the flower of 'PHALDIMXAP'.

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

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of 'PHALDIMXAP'. 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 tissue culture 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 2013. Color readings were taken under 4000 till 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* Blume.

Common name.—*Phalaenopsis*.

Variety name.—'PHALDIMXAP'.

Parentage:

Female parent.—*Phalaenopsis* cultivar 'unknown'.

Male parent.—*Phalaenopsis* cultivar 'unknown'.

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 inflorescence.—Standard type, dark green leaves and normal panicle.

Height (measured including pot and including inflorescence).—40 cm to 45 cm.

Width (measured from leaf tips).—38 cm to 43 cm.

Vigor.—Moderate.

Roots:

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

Leaves:

Mature leaves.—Quantity per plant: 8 to 9 leaves are produced before flowering. Length (fully expanded): 19 cm to 21 cm. Width: 5 cm to 7 cm. Shape: narrow obovate. Apex: mucronate. Base: cuneate. Leaf blade angle with the petiole: between 15 degrees and 30 degrees. Leaf margin: entire. Color: Upper surface: RHS 139 A. Lower surface: RHS 146 B. Texture: smooth and a little bit rough. Thickness: 2.5 mm. Venation: Pattern: parallel. Color of the midvein: Upper surface: RHS 136 A. Lower surface: RHS 137 A.

Peduncle:

Quantity per plant.—2 to 3.

Number of flowers per peduncle.—22 to 30.

Length.—30 cm.

Diameter.—About 0.5 cm.

Strength.—Strong.

Aspect.—Upright.

Texture.—Smooth.

Color.—Brown (RHS 200 A).

Internode length.—25 mm to 45 mm.

Inflorescence description:

Appearance.—Upright to slightly pendant, panicle inflorescence.

Inflorescence size.—Height (from base to tip): 50 mm to 70 mm. Diameter: 110 mm to 140 mm.

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

Flower.—Height: 40 mm to 50 mm. Diameter: 50 mm to 60 mm. Depth of lip: 20 mm to 25 mm.

Flower longevity.—On the plant: 10 to 14 weeks.

Fragrance.—Absent.

Petals.—Arrangement: open. Shape: semi-circular.

Apex: symmetric and mucronate. Margin: entire.

Length: 29 mm to 32 mm. Width: 23 mm to 26 mm.

Color (when fully opened): Main color: purple (RHS 77 A). At the base: light purple (RHS 77 B).

Dorsal sepal.—Shape: elliptic. Length: 24 mm to 26 mm. Width: 19 mm to 22 mm. Color (when fully opened): Main color: purple (RHS 77 A). At the base: light purple (RHS 77 B).

Lateral sepals.—Shape: ovate. Length: 19 mm to 21 mm. Width: 25 mm to 27 mm. Color (when fully opened): Main color: purple (RHS 77 A). At the base: purple, a little bit spotted (RHS 77 A).

Labellum (lip).—Margin: entire. Length: 16 mm to 18 mm. Width: 15 mm to 17 mm.

Lateral lobe.—Shape: type IV (see explanation). Color: dark purple, almost evenly colored (RHS 59 A).

Apical lobe.—Shape: ovate. Color: dark purple, evenly colored (RHS 59 A).

Callus.—Color: yellow/orange with red dots (22A RHS).

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: 10 mm to 11 mm. Diameter: 7 mm to 8 mm. Color: purple (RHS 81 A).

Pollinia.—Quantity: 2. Size: 1 mm to 1.1 mm. Color: orange (RHS 26 A).

Ovary.—Length: 7 mm to 9 mm. Diameter: 4 mm to 5 mm.

Pedicel.—Length: 20 mm to 25 mm. Diameter: 3 mm to 4 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 COMMERCIAL VARIETIES

Presently there is no commercial cultivar to which 'PHALDIMXAP' can be meaningfully compared.

I claim:

1. A new and distinct variety of *Phalaenopsis* plant named 'PHALDIMXAP' as shown and described herein.



FIG. 1

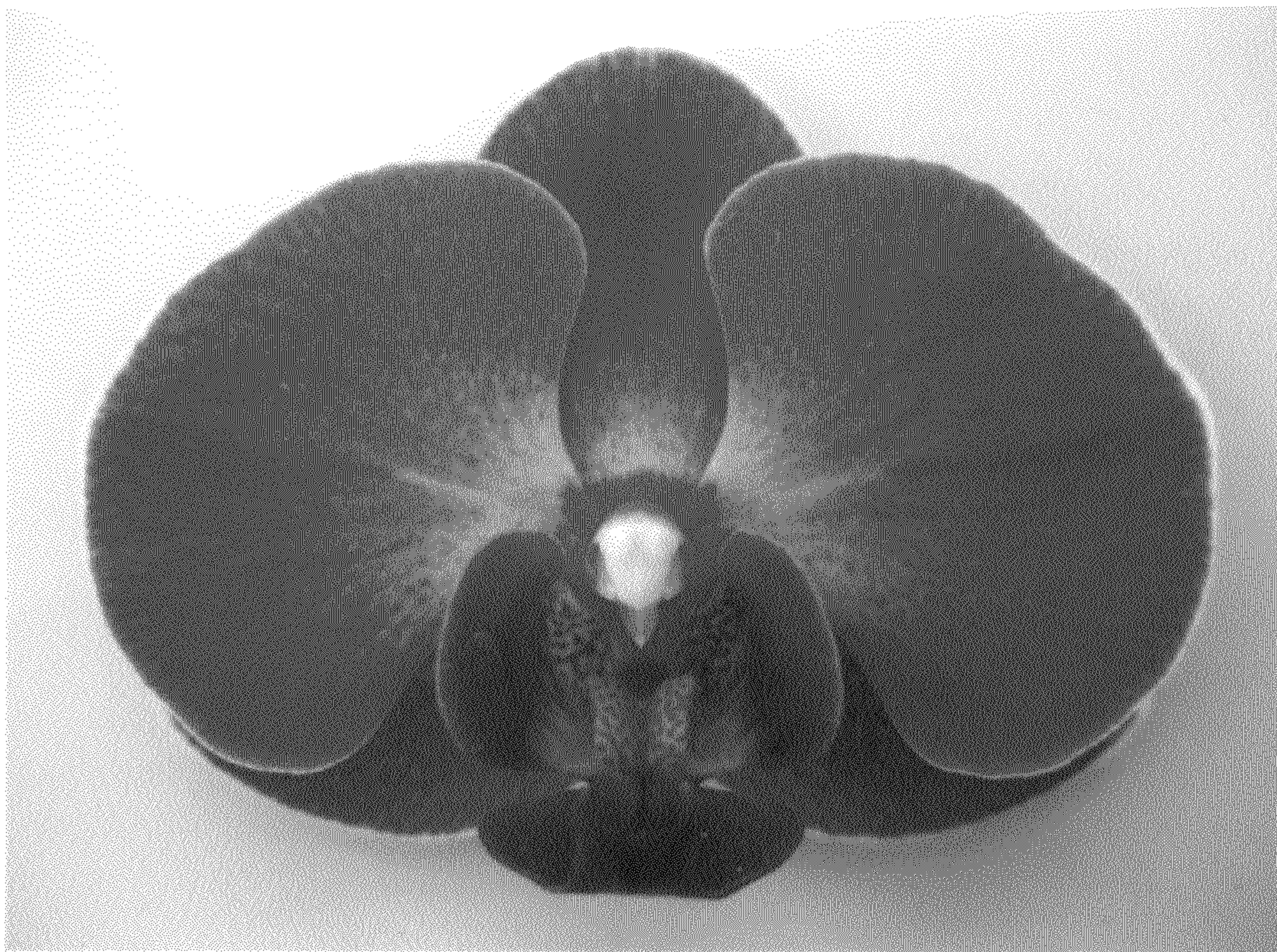


FIG. 2

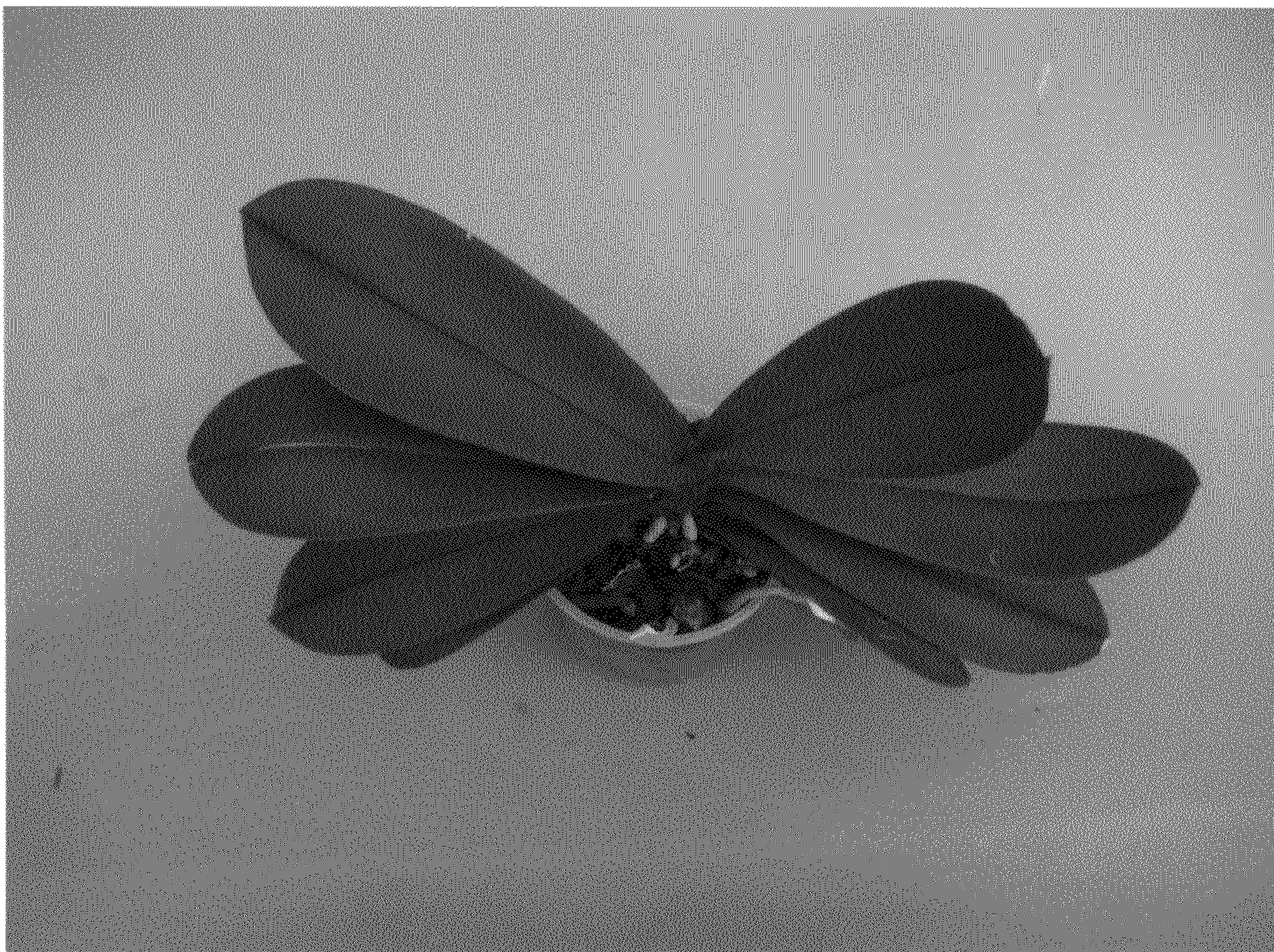


FIG. 3