



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

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

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

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USPC **Plt./311**

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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 ‘PHALGAKXYN’, particularly characterized by having white flowers with a pink blush in the center and white lips with a hint of very light purple, 1 to 3 peduncles that are long and sturdy, and is propagated by meristem tissue culture, is disclosed.

3 Drawing Sheets

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

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 ‘PHALGAKXYN’.

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 white flowers with a pink blush in the center and white lips with a hint of very light purple, suitable for potted plant production.

The new *Phalaenopsis* plant ‘PHALGAKXYN’ is a result of cross-pollination made by the inventor in January 2009 in Bleiswijk, the Netherlands, of the proprietary female, or seed parent, *Phalaenopsis* hybrid ‘6240-02’ (unpatented) with the proprietary male, or pollen parent, *Phalaenopsis* hybrid ‘20421-08’ (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 June 2012. 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.

Community Plant Variety Rights for this variety have been applied for in the European Union on Apr. 26, 2018, by Applicant who obtained the subject matter disclosed directly from the inventor. ‘PHALGAKXYN’ has not been made publicly available or sold anywhere in the world prior to the

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effective filing date 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 ‘PHALGAKXYN’ directly from the inventor.

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 ‘PHALGAKXYN’ as a new and distinct variety of *Phalaenopsis* plant:

- 1) White flowers with a pink blush in the center and white lips with a hint of very light purple;
- 2) 1 to 3 peduncles; and
- 3) Peduncle is long and sturdy.

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 October 2019. 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 ‘PHALGAKXYN’.

FIG. 2 shows a close-up of a flower of ‘PHALGAKXYN’.

FIG. 3 shows an overhead view of the leaves of ‘PHALGAKXYN’.

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of ‘PHALGAKXYN’. 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 2019 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 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 12-centimeter pots.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Orchidaceae.

Botanical.—*Phalaenopsis* hybrid.

Common name.—Moth orchid.

Variety name.—‘PHALGAKXYN’.

Parentage:

Female parent.—*Phalaenopsis* cultivar ‘6240-02’ (unpatented).

Male parent.—*Phalaenopsis* cultivar ‘20421-08’ (unpatented).

Propagation:

Type.—Meristem tissue culture.

Roots:

Root description.—Greyed-green (between RHS 190B and 190C) colored roots with branching lateral roots having light yellow-green (RHS 146C) colored root tips with a hint of purplish-red (RHS 184C).

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 inflorescence.

Height (from soil level to top of inflorescence).—Approximately 50.0 cm to 60.0 cm.

Width (measured from leaf tips).—About 29.0 cm to 32.0 cm.

Vigor.—Strong.

Leaves:

Mature leaves.—Quantity per plant: 5 to 7 leaves are produced before flowering. Length (fully expanded): 18.0 cm to 22.0 cm. Width: 6.5 cm to 7.5 cm. Position of the broadest part of the leaf: Toward the apex. Shape: Obovate. Base shape: Moderately elongated. Apex: Obtuse unequal. Leaf blade angle with the petiole (measured from the horizontal position): Between 15 degrees and 35 degrees. Leaf margin: Entire. Color: Upper surface: RHS 146A. Lower surface: RHS 146B with a dark red margin (RHS 187A). Texture (both upper and lower surfaces): Smooth. Thickness: 2.0 mm to 2.4 mm. Variegation:

Absent. Venation: Pattern: Parallel. Color of the midvein: Upper surface: RHS 146A. Lower surface: RHS 146B with a touch of RHS 187A.

Peduncle:

Quantity per plant.—1 to 3.

Number of flowers per peduncle.—7 to 10.

Length.—50.0 cm to 60.0 cm.

Diameter.—5.0 mm to 6.0 mm.

Strength.—Strong.

Aspect.—Upright to slightly pendant.

Texture.—Smooth.

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

Internode length.—4.0 cm to 5.0 cm.

Inflorescence description:

Appearance.—Upright to slightly pendant, raceme 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): 150.0 mm to 200.0 mm.

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

Flower.—Height: 75.0 mm to 80.0 mm. Diameter: 95.0 mm to 100.0 mm. Depth of lip: 24.0 mm to 27.0 mm.

Flower longevity.—On the plant: 12 to 15 weeks.

Flower shape.—Concave.

Fragrance.—Absent.

Flower bud.—Average size: Medium. Length: 18.0 mm to 20.0 mm. Width: 14.0 mm to 16.0 mm. Shape: Egg shaped. Color: Slightly yellow-green (RHS 146D) at the base and purplish-red (RHS N186D) toward the tip.

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Emarginated. Margin: Entire. Length (from base to tip): 44.0 mm to 47.0 mm. Width: 56.0 mm to 58.0 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: Light purplish-pink (RHS N78C) at the base. Lower surface: Basic color: White (RHS NN155C). Over color: Light purple blush (RHS 76A to 76B). Number of spots and stripes on the petals: None. Color of spots and stripes on the petals: None. Density of netting of the petals: None. Color of the netting: None.

Dorsal sepal.—Shape: Elliptic. Apex: Obtuse. Margin: Entire. Length (from base to tip): 49.0 mm to 51.0 mm. Width: 30.0 mm to 32.0 mm. Position of the broadest part of the dorsal sepal: In the middle. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Light reddish-purple (RHS N78D) at the base. Lower surface: Basic color: Light reddish-purple (RHS N78D). Over color: Slightly white edge (RHS NN155C). Number of spots and stripes on the dorsal sepals: None. Color of spots and stripes on the dorsal sepals: None. Density of netting of the dorsal sepals: None. Color of the netting: None.

Lateral sepals.—Shape: Ovate. Apex: Obtuse symmetric. Margin: Entire. Length (from base to tip): 47.0 mm to 50.0 mm. Width: 26.0 mm to 28.0 mm. Position of the broadest part of the lateral sepal: At the middle. Color (when fully opened): Upper sur-

face: Basic color: White (RHS NN155C). Over color: Light reddish-purple (RHS N78D) at the base and very light purple blush (RHS 76C). Lower surface: Basic color: Light reddish-purple (RHS N78D). Over color: Reddish-purple midvein (RHS N78B) toward the tip. Number of spots and stripes on the lateral sepals: Medium (at the base). Color of spots and stripes on the lateral sepals: Reddish-purple (RHS N78B). Density of netting of the lateral sepals: None. Color of the netting: None.

Labellum (lip).—Whiskers: Present. Length of whiskers: 12.0 mm to 14.0 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: Entire. Length: 25.0 mm to 27.0 mm. Width: 19.0 mm to 21.0 mm. Color: Upper surface: White (RHS NN155C) with a small reddish margin (RHS 184B) toward the base. Lower surface: White (RHS NN155C) with a hint of very light purple (RHS 76C) toward the base. Number of spots and stripes on the lateral lobe: Few. Color of spots and stripes on the lateral lobe: Red (RHS 184A). Density of netting of the lateral lobe: None. Color of the netting: None.

Apical lobe.—Shape: Trullate. Margin: Entire. Length: 19.0 mm to 21.0 mm. Width: 23.0 mm to 25.0 mm. Color: Upper surface: Slightly purplish-red (RHS 184D) at the base; very light purple (RHS 76C) and white (RHS NN155C) toward the whiskers. Lower surface: Light purple (RHS 76B) at the base and white (RHS NN155C) toward the whiskers. Number of spots and stripes on the apical lobe: None. Color of spots and stripes on the apical lobe: None. Density of netting of the apical lobe: None. Color of the netting: None.

Callus.—Average size: Medium to large. Height: 0.7 cm to 0.8 cm. Length: 0.6 cm to 0.7 cm. Width: 0.5 cm to 0.6 cm. Color: Yellow (mix of RHS 9A and 10A) with reddish stripes (RHS 176A).

Reproductive organs:

Column.—Length: 8.0 mm to 10.0 mm. Diameter: 5.0 mm to 6.0 mm. Color: Very light purple (RHS 76B).

Pollinia.—Quantity: 2. Diameter: 0.8 mm to 1.0 mm. Color: Orange-yellow (RHS 23A).

Ovary.—Length: 11.0 mm to 13.0 mm. Diameter: 2.0 mm to 3.0 mm.

Pedicel.—Length: 38.0 mm to 40.0 mm. Diameter: 3.0 mm to 4.0 mm. Color: Dark red (RHS 187A) at the base; mix of purplish-red (RHS N77B) and light yellow-green (RHS 145C); very light purple (RHS 76C) toward the flower. Texture: Smooth.

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

‘PHALGAKXYN’ differs from female parent plant ‘6240-02’ (unpatented) in that ‘PHALGAKXYN’ has white whiskers and flowers with a main color of white, whereas ‘6240-02’ has reddish-purple whiskers and flowers with a main color of reddish-purple. Additionally, ‘PHALGAKXYN’ has wider petals than ‘6240-02’.

The male parent plant of ‘PHALGAKXYN’, cultivar ‘20421-08’ (unpatented) is no longer in existence, so a meaningful comparison cannot be made.

‘PHALGAKXYN’ is most similar to the commercial *Phalaenopsis* plants named ‘PHALDILEP’ (U.S. Plant Pat. No. 29,641) and ‘PHALBANEHI’ (unpatented). ‘PHALGAKXYN’ differs from the commercial variety ‘PHALDILEP’ in that ‘PHALGAKXYN’ has apical lobes that are slightly purplish-red (RHS 184D) at the base and very light purple (RHS 76C) and white (RHS NN155C) toward the whiskers, whereas ‘PHALDILEP’ has apical lobes that are dark red (RHS 185A) at the base and purple (RHS N78C) and white (RHS NN155C) toward the whiskers. Additionally, ‘PHALGAKXYN’ has wider apical lobes and wider petals than ‘PHALDILEP’.

‘PHALGAKXYN’ differs from the commercial variety ‘PHALBANEHI’ in that ‘PHALGAKXYN’ has apical lobes that are slightly purplish-red at the base and very light purple and white toward the whiskers, whereas ‘PHALBANEHI’ has apical lobes with yellow wings and at the base RHS 14A, and red toward the whiskers. Additionally, ‘PHALGAKXYN’ has larger flowers, wider apical lobes, and wider petals than ‘PHALBANEHI’.

I claim:

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

* * * * *

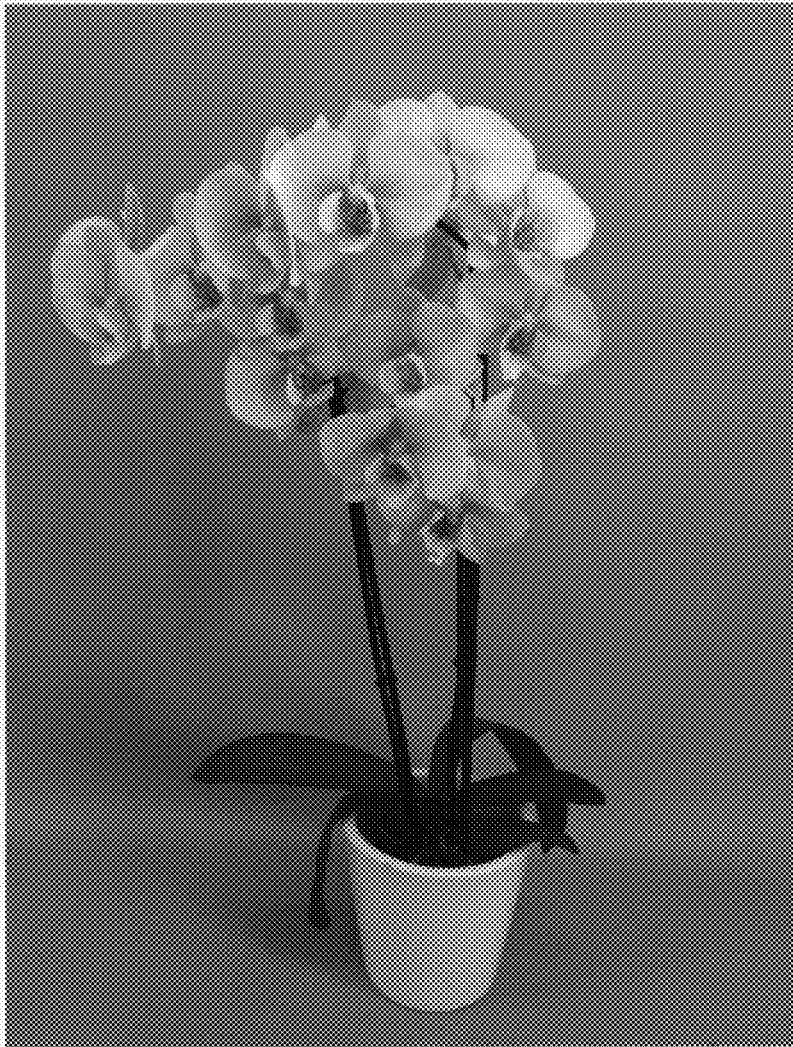


FIG. 1

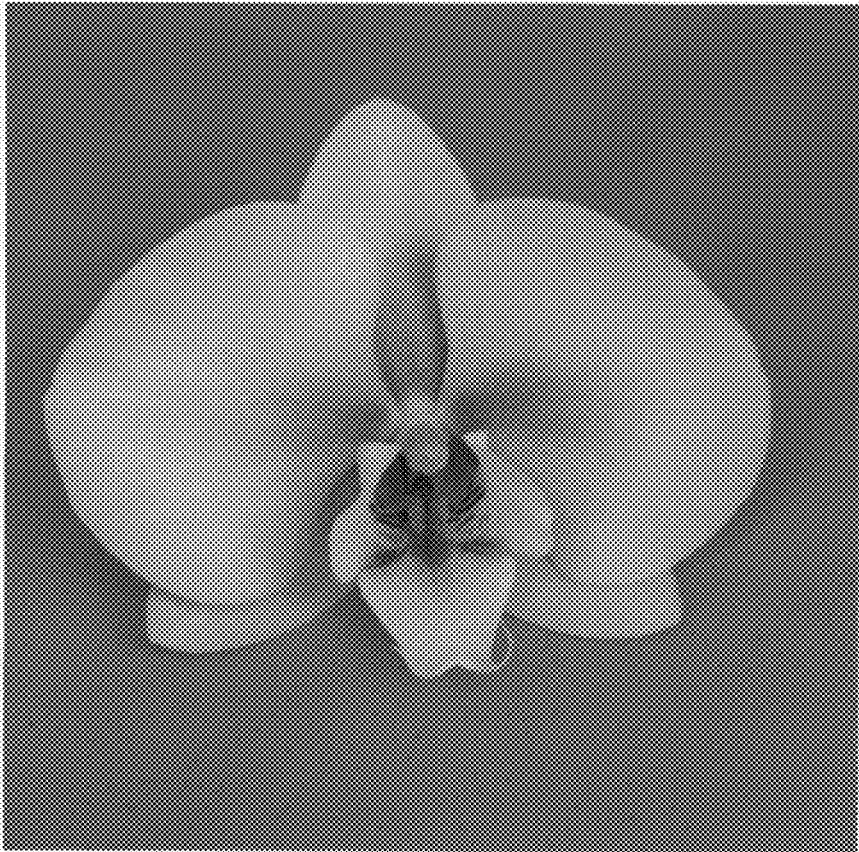


FIG. 2

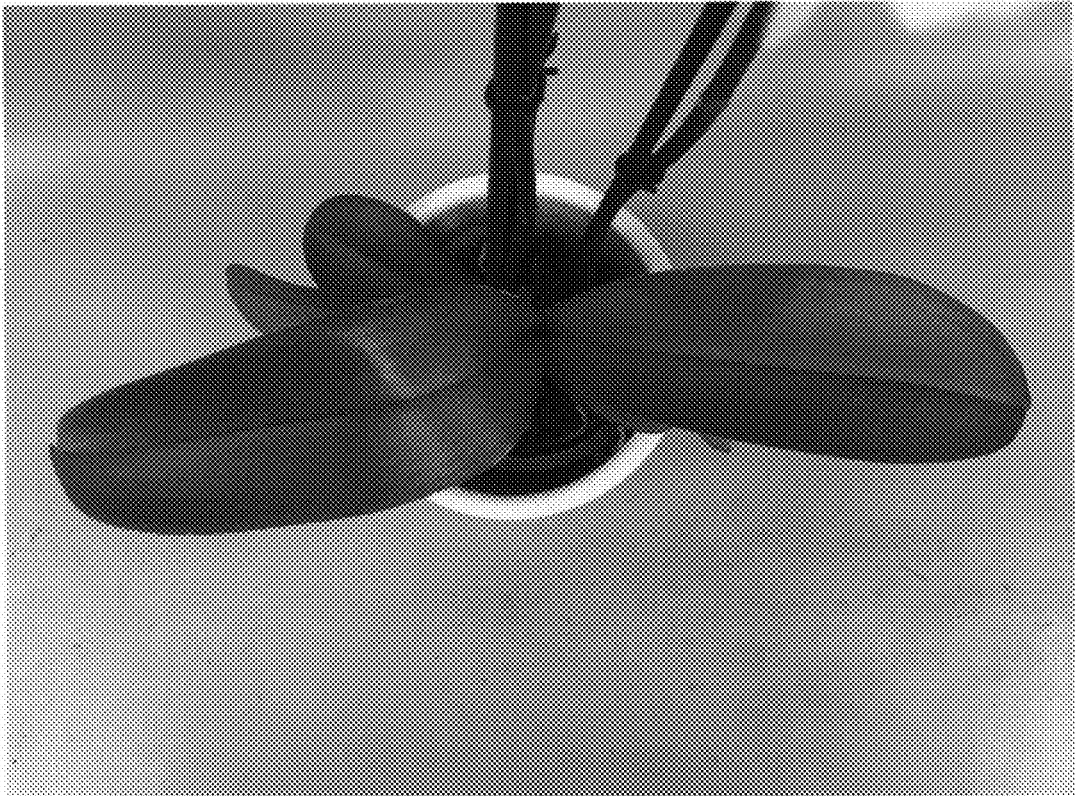


FIG. 3