



US00PP33076P2

(12) **United States Plant Patent**
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(10) **Patent No.:** **US PP33,076 P2**

(45) **Date of Patent:** **May 18, 2021**

(54) **PHALAEENOPSIS ORCHID PLANT NAMED**
‘PHALSIRVGE’

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

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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.: **16/974,200**

(22) Filed: **Nov. 12, 2020**

(51) **Int. Cl.**
A01H 5/02 (2018.01)
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**
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 ‘PHALSIRVGE’, particularly characterized by white, small flowers with yellow and white lips, a flat flower shape in lateral view, half of the lateral sepal is light yellow-green, a short, compact, and branched plant, and is propagated by meristem tissue culture, is disclosed.

3 Drawing Sheets

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

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 ‘PHALSIRVGE’.

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, short, compact, and branched *Phalaenopsis* plant with many small, white flowers with yellow and white lips, suitable for potted plant production.

The new *Phalaenopsis* plant ‘PHALSIRVGE’ is a result of cross-pollination made by the inventor in January 2013 in Bleiswijk, the Netherlands, of the proprietary female, or seed parent, *Phalaenopsis* hybrid ‘42411-01’ (unpatented) with the proprietary male, or pollen parent, *Phalaenopsis* hybrid ‘01-4194’ (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 2015. Asexual reproduction of the new *Phalaenopsis* plant by meristem tissue culture since 2016 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. 9, 2020 (Application no. 2020/1003), by Applicant who obtained the subject matter disclosed directly from the inventor. ‘PHALSIRVGE’ has not been made publicly available or sold anywhere in the world prior to the effective filing date of this

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

- 1) White, small flowers with yellow and white lips;
- 2) Flower shape in lateral view is flat;
- 3) Half of the lateral sepal is light yellow-green; and
- 4) Plant is short, compact, and branched.

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 45-week-old plants in October 2020. 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 ‘PHALSIRVGE’.

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

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

DESCRIPTION OF THE NEW VARIETY

The following detailed description sets forth the distinctive characteristics of ‘PHALSIRVGE’. 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 2020 on flowering plants which were planted in 9-centimeter (diameter) pots. After in vitro propagation, the plants were grown in nursery trays for 18-20 weeks, followed by transplantation to 9-centimeter pots and grown in a greenhouse between 27° C. to 29° C. for 25 weeks, continued by a cooling period of 6 weeks between 18° C. to 20° C. and 11 weeks in a greenhouse of 21° C. Flowering occurs after 42 weeks in 9-centimeter pots.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Orchidaceae.

Botanical.—*Phalaenopsis* hybrid.

Common name.—Moth orchid.

Variety name.—‘PHALSIRVGE’.

Parentage:

Female parent.—*Phalaenopsis* cultivar ‘42411-01’ (unpatented).

Male parent.—*Phalaenopsis* cultivar ‘01-4194’ (unpatented).

Propagation:

Type.—Meristem tissue culture.

Roots:

Root description.—Greyed-green (something between RHS 190B and 190C) colored roots with branching lateral roots having yellow-green (something in between RHS 145A and 145B) colored root tips.

Plant:

Commercial crop time to flowering.—Following asexual propagation (in vitro), the rooted cuttings grow for 18-20 weeks. After transplantation into 9-cm pots, the plants are finished after 40 to 42 weeks.

Growth habit of the peduncle.—Upright to slightly pendent with raceme inflorescence.

Height (from soil level to top of inflorescence).—Approximately 13.0 cm to 18.0 cm.

Width (measured from leaf tips).—About 23.0 cm to 25.0 cm.

Vigor.—Strong.

Leaves:

Mature leaves.—Quantity per plant: 8 to 10 leaves are produced before flowering. Length (fully expanded): 10.0 cm to 12.0 cm. Width: 6.5 cm to 7.5 cm. Position of the broadest part of the leaf: At the middle. Shape: Oblong. Base shape: Moderately elongated. Apex: Obtuse unequal. Leaf blade angle with the petiole (measured from the horizontal position): Between 5 degrees and 20 degrees. Leaf margin: Entire. Color: Upper surface: RHS 146A with yellowish-green margin (RHS N144A). Lower surface: RHS 146B. Texture (both upper and lower surfaces): Smooth. Thickness: 2.2 mm to 2.7 mm.

Variation: Absent. Venation: Pattern: Parallel.

Color of the midvein: Upper surface: RHS 146A.

Lower surface: RHS 144A.

Peduncle:

Quantity per plant.—3 to 5.

Number of flowers per peduncle.—40 to 50.

Length.—13.0 cm to 18.0 cm.

Diameter.—3.0 mm to 5.0 mm.

Strength.—Strong.

Aspect.—Upright to slightly pendent.

Texture.—Smooth.

Color.—Green (RHS 146A).

Internode length.—1.0 cm to 2.0 cm.

Inflorescence description:

Appearance.—Upright to slightly pendent, raceme inflorescence with bilaterally symmetrical flowers that open in succession beginning with the lowermost flower.

Number of inflorescences.—3 to 5.

Inflorescence size.—Height (from base to tip): 70.0 mm to 120.0 mm.

Flowering time.—First flowers can be expected 7 to 8 months after planting in a 9-cm pot.

Flower.—Height: 30.0 mm to 35.0 mm. Diameter: 40.0 mm to 45.0 mm. Depth of lip: 12.0 mm to 14.0 mm.

Flower longevity.—On the plant: 8 to 10 weeks.

Flower shape in lateral view.—Flat.

Fragrance.—Absent.

Flower bud.—Average size: Medium. Length: 13.0 mm to 15.0 mm. Width: 11.0 mm to 13.0 mm. Shape: Egg shaped. Color: Yellow-green (something in between RHS 144C and 154C) with a hint of red (RHS 183C).

Petals.—Arrangement: Open/free. Shape: Semi-circular. Apex: Obtuse to rounded asymmetric. Margin: Weakly undulated. Length (from base to tip): 19.0 mm to 21.0 mm. Width: 16.0 mm to 18.0 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: Absent. Lower surface: Basic color: White (RHS NN155C). Over color: Light reddish-purple midvein (RHS N78D) at the base. Number of spots and stripes on the petals (upper surface): None. Color of spots and stripes on the petals (upper surface): Not applicable. Density of netting of the petals (upper surface): None. Color of the netting (upper surface): Not applicable.

Dorsal sepal.—Shape: Elliptic. Apex: Obtuse symmetric. Margin: Entire. Length (from base to tip): 19.0 mm to 21.0 mm. Width: 13.0 mm to 15.0 mm. Position of the broadest part of the dorsal sepals: At the middle. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Absent. Lower surface: Basic color: White (RHS NN155C). Over color: Light yellow-green (RHS 150D) with reddish-purple shade and midvein (RHS N78D) toward the tip. Number of spots and stripes on the dorsal sepals (upper surface): None. Color of spots and stripes on the dorsal sepals (upper surface): Not applicable. Density of netting of the dorsal sepals (upper surface): None. Color of the netting: Not applicable.

Lateral sepals.—Shape: Ovate. Apex: Obtuse asymmetric. Margin: Entire. Length (from base to tip):

18.0 mm to 20.0 mm. Width: 13.0 mm to 15.0 mm. Position of the broadest part of the lateral sepals: Toward the base. Color (when fully opened): Upper surface: Basic color: White (RHS NN155C). Over color: Light yellow-green (RHS 150D). Lower surface: Basic color: White (RHS NN155C). Over color: Light yellow-green (something in between RHS 150C and 150D); purplish-pink midvein (RHS N78C) toward the tip. Number of spots and stripes on the lateral sepals (upper surface): None. Color of spots and stripes on the lateral sepals (upper surface): Not applicable. Density of netting of the lateral sepals (upper surface): None. Color of the netting (upper surface): Not applicable.

Labellum (lip).—Whiskers: Present. Length of whiskers: 1.0 mm to 2.0 mm. Color of whiskers: Yellow (RHS 13A). Pubescence on the lip: Absent.

Lateral lobe.—Shape: Type IV (as described in the International Union for the Protection of New Varieties of Plants (UPOV) Test Guidelines for *Phalaenopsis*); weakly spatulate. Margin: Undulated (widely wavy). Length: 11.0 mm to 13.0 mm. Width: 7.0 mm to 9.0 mm. Color: Upper surface: Light greenish-yellow margin (RHS 10C) on one side from the base; white (RHS NN155C) toward the tip; striped (something in between RHS 70A and 70B). Lower surface: White (RHS NN155C) toward margin. Number of spots and stripes on the lateral lobe: Medium stripes at the base. Color of spots and stripes on the lateral lobe: Something in between RHS 70A and 70B. Density of netting of the lateral lobe: None. Color of the netting: Not applicable.

Apical lobe.—Shape: Narrow ovate. Margin: Entire. Length: 15.0 mm to 17.0 mm. Width: 10.0 mm to 12.0 mm. Color: Upper surface: Yellow (something in between RHS 12A and 12B) at the base; white (RHS NN155C) toward whiskers. Lower surface: Yellow (RHS 12A) at the base toward margin and light greenish-yellow (RHS 4C) at the middle; white (RHS NN155C) toward margin. Number of spots and stripes on the apical lobe: None. Color of spots and stripes on the apical lobe: Not applicable. Density of netting of the apical lobe: None. Color of the netting: None.

Callus.—Average size: Small. Height: 2.0 mm to 3.0 mm. Length: 3.0 mm to 4.0 mm. Width: 2.0 mm to 3.0 mm. Color: Yellow (RHS 14A); dotted (RHS 176A).

Reproductive organs:

Column.—Length: 7.0 mm to 9.0 mm. Diameter: 3.7 mm to 4.2 mm. Color: White (RHS NN155C) with a touch of very light purple (RHS 76C).

Pollinia.—Quantity: 2. Diameter: 0.4 mm to 0.6 mm. Color: Orange (RHS 24A).

Ovary.—Length: 10.0 mm to 12.0 mm. Diameter: 1.5 mm to 1.7 mm.

Pedicel.—Length: 30.0 mm to 32.0 mm. Diameter: 1.7 mm to 1.9 mm. Texture: Smooth. Color: Yellow-green (RHS 144A) at the base; white (RHS NN155C) and very light purple (RHS 76A) 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

‘PHALSIRVGE’ differs from the female parent plant ‘42411-01’ (unpatented) in that ‘PHALSIRVGE’ has yellow whiskers and white columns with a touch of very light purple, whereas ‘42411-01’ has white whiskers and white columns.

The male parent plant of ‘PHALSIRVGE’, cultivar ‘01-4194’ (unpatented), is no longer in existence, therefore a meaningful comparison cannot be made.

‘PHALSIRVGE’ is most similar to the commercial *Phalaenopsis* plants named ‘PHALGLODAL’ (U.S. Plant Pat. No. 30,522) and ‘PHALGEPWAL’ (U.S. Plant Pat. No. 30,990). ‘PHALSIRVGE’ differs from the commercial variety ‘PHALGLODAL’ in that ‘PHALSIRVGE’ has yellow whiskers and narrow ovate apical lobes, whereas ‘PHALGLODAL’ has white whiskers and elliptical to circular apical lobes. Additionally, ‘PHALSIRVGE’ has narrower lateral lobes, shorter whiskers, and shorter leaves than ‘PHALGLODAL’.

‘PHALSIRVGE’ differs from the commercial variety ‘PHALGEPWAL’ in that ‘PHALSIRVGE’ has obtuse dorsal sepal apices and yellow whiskers, whereas ‘PHALGEPWAL’ has rounded to slightly emarginated dorsal sepal apices and white whiskers. Additionally, ‘PHALSIRVGE’ has shorter whiskers and longer leaves than ‘PHALGEPWAL’.

I claim:

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

* * * * *



FIG. 1

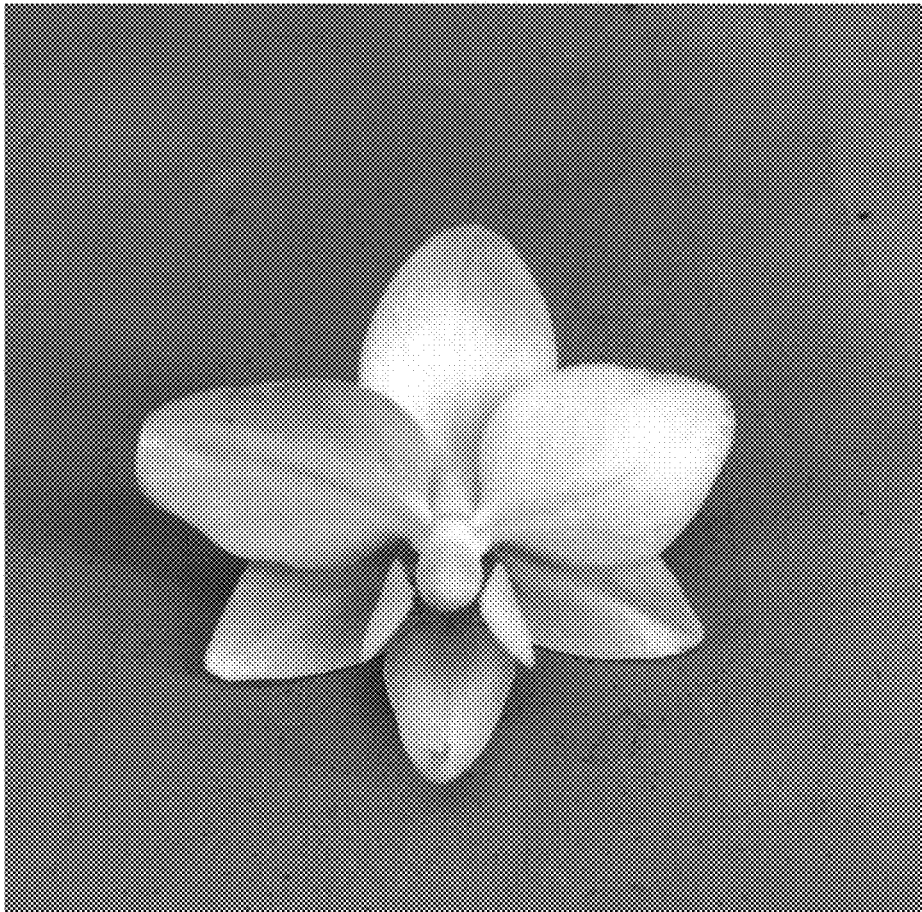


FIG. 2

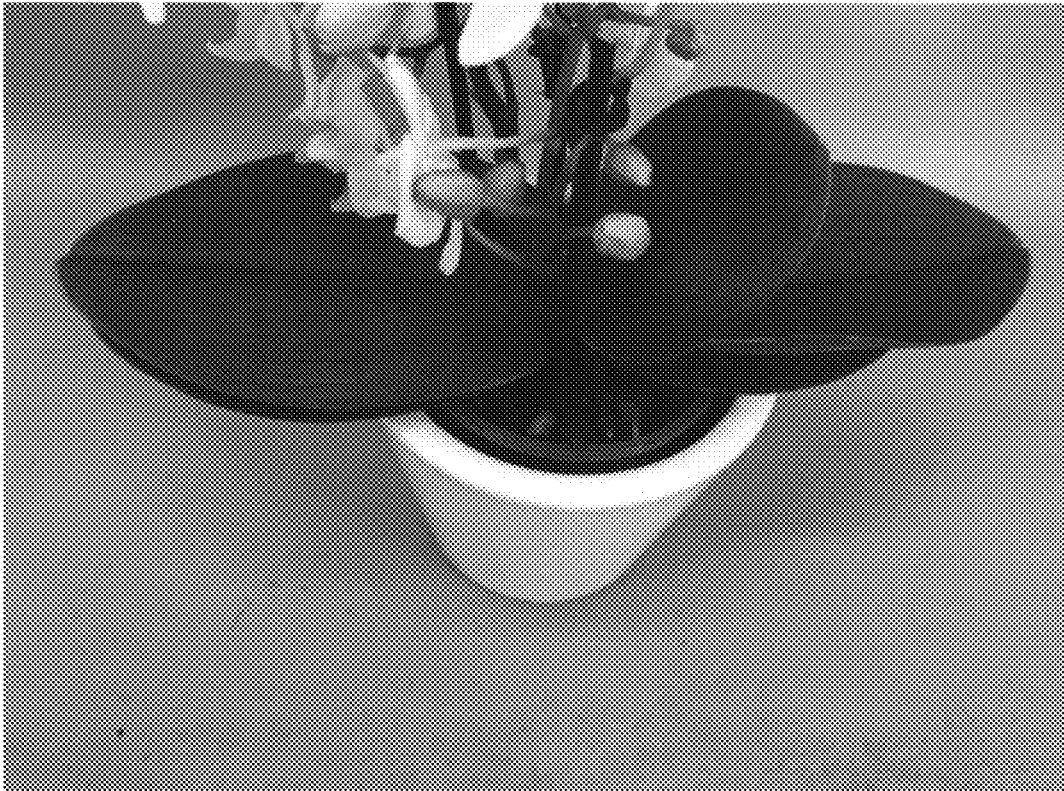


FIG. 3