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(12) **United States Plant Patent**
Nguyen

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(54) **VERBENA PLANT NAMED ‘BALCADAVLU’**

(50) Latin Name: *Verbena* hybrid
Varietal Denomination: **Balcadavlu**

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patent is extended or adjusted under 35
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A01H 6/86 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./308**

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

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP23,595 P2 * 5/2013 Hanes A01H 5/02
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* cited by examiner

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(57) **ABSTRACT**

A new and distinct cultivar of *Verbena* plant named ‘Bal-
cadavlu’, characterized by its medium and dark purple-
violet and white-colored flowers, medium green-colored
foliage, and moderately vigorous, compact-upright growth
habit, is disclosed.

1 Drawing Sheet

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Latin name of genus and species of plant claimed: *Ver-
bena* hybrid.

Variety denomination: ‘Balcadavlu’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Verbena* plant botanically known as *Verbena* hybrid and
hereinafter referred to by the cultivar name ‘Balcadavlu’.

The new cultivar originated in a controlled breeding
program in Arroyo Grande, Calif. during May 2014. The
objective of the breeding program was the development of
Verbena cultivars that have a compact-upright growth habit.

The new *Verbena* cultivar is the result of cross-pollina-
tion. The female (seed) parent of the new cultivar is the
proprietary *Verbena* hybrid breeding selection coded 9936-
3, not patented, characterized by its medium red-colored
flowers, medium green-colored foliage, and vigorous,
spreading growth habit. The male (pollen) parent of the new
cultivar is the proprietary *Verbena* hybrid breeding selection
coded 9934-4, not patented, characterized by its medium
purple-colored flowers, medium green-colored foliage, and
moderately vigorous, compact-upright growth habit. The
new cultivar was discovered and selected as a single flow-
ering plant within the progeny of the above stated cross-
pollination during April 2015 in a controlled environment in
Arroyo Grande, Calif.

Asexual reproduction of the new cultivar by terminal stem
cuttings since April 2015 in Arroyo Grande, Calif., and West
Chicago, Ill. has demonstrated that the new cultivar repro-
duces true to type with all of the characteristics, as herein
described, firmly fixed and retained through successive
generations of such asexual propagation.

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SUMMARY OF THE INVENTION

The following characteristics of the new cultivar have
been repeatedly observed and can be used to distinguish
‘Balcadavlu’ as a new and distinct cultivar of *Verbena* plant:

1. Medium and dark purple-violet and white-colored
flowers;
2. Medium green-colored foliage; and
3. Moderately vigorous, compact-upright growth habit.

Plants of the new cultivar differ from plants of the female
parent primarily in having a different flower color, less
growth vigor and a different growth habit. Plants of the new
cultivar differ from plants of the male parent primarily in
having a different flower color.

Of the many commercially available *Verbena* cultivars,
the most similar in comparison to the new cultivar is LANAI
Upright Blue with Eye ‘VEAZ0007’, U.S. Plant Pat. No.
23,595. However, in side by side comparisons, plants of the
new cultivar differ from plants of ‘VEAZ0007’ in at least the
following characteristics:

1. Plants of the new cultivar have a flower color that is
slightly different from plants of ‘VEAZ0007’;
2. Plants of the new cultivar have white coloration only at
the base of the two lateral petals and the lower petal and
as such do not have a true flower “eye” unlike plants of
‘VEAZ0007’ that have white coloration at the base of
all five petals; and
3. Plants of the new cultivar are shorter than plants of
‘VEAZ0007’.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs show, as nearly true as it
is reasonably possible to make the same in color illustrations

of this type, typical flower and foliage characteristics of the new cultivar. Colors in the photographs differ slightly from the color values cited in the detailed description, which accurately describes the colors of 'Balcadavlu'. The plants were grown in 4-inch pots for 13 weeks in a greenhouse in West Chicago, Ill. Plants were given one pinch one week after transplant.

FIG. 1 illustrates a side view of the overall growth and flowering habit of 'Balcadavlu'.

FIG. 2 illustrates a close-up view of an individual inflorescence of 'Balcadavlu'.

DETAILED BOTANICAL DESCRIPTION

The new cultivar has not been observed under all possible environmental conditions to date. Accordingly, it is possible that the phenotype may vary somewhat with variations in the 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 in January 2018 under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe plants produced from cuttings from stock plants and grown in a glass-covered greenhouse under conditions comparable to those used in commercial practice. The plants were grown in West Chicago, Ill. in 4-inch pots for 13 weeks utilizing a soilless growth medium. Plants were given one pinch one week after transplant. Greenhouse temperatures were maintained at approximately 68° F. to 72° F. (20° C. to 22° C.) during the day and approximately 64° F. to 66° F. (18° C. to 19° C.) during the night. Supplemental lighting was used. Measurements and numerical values represent averages of typical plants.

Botanical classification: *Verbena* hybrid 'Balcadavlu'.

Parentage:

Female parent.—Proprietary *Verbena* hybrid breeding selection coded 9936-3, not patented.

Male parent.—Proprietary *Verbena* hybrid breeding selection coded 9934-4, not patented.

Propagation:

Type cutting.—Terminal stem.

Time to initiate roots.—Approximately 6 to 9 days.

Time to produce a rooted cutting.—Approximately 24 to 28 days.

Root description.—Fibrous.

Rooting habit.—Freely branching.

Plant description:

Commercial crop time.—Approximately 5 to 7 weeks from a rooted cutting to finish in a 10 cm pot.

Growth habit and general appearance.—Moderately vigorous, compact-upright.

Size.—Height from soil level to top of plant plane: Approximately 16.0 cm. Width: Approximately 19.0 cm.

Branching habit.—Freely branching, pinching enhances basal branching. Quantity of main branches per plant: Approximately 6.

Branch.—Shape: Square in cross section. Strength: Strong. Length: Approximately 13.0 cm. Diameter: Approximately 3.0 mm. Length of central internode: Approximately 1.5 cm. Texture: Densely pubescent

with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color of young stems: 145A. Color of mature stems: 146D.

Foliage description:

General description.—Quantity of leaves per main branch: Approximately 10. Fragrance: None detected. Form: Simple. Arrangement: Opposite.

Leaves.—Aspect: Perpendicular to stem, obtuse angle with age. Shape: Ovate to oblong. Margin: Crenate. Apex: Broadly acute to rounded. Base: Truncate. Venation pattern: Pinnate. Length of mature leaf: Approximately 5.5 cm. Width of mature leaf: Approximately 3.6 cm. Texture of upper surface: Densely pubescent. Texture of lower surface: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color of upper surface of young and mature foliage: Closest to but darker than 137A with venation of 147C. Color of lower surface of young and mature foliage: Closest to 137B with venation of 147C.

Petiole.—Length: Approximately 1.2 cm. Diameter: Approximately 2.0 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color: 147C to 147D.

Flowering description:

Flowering habit.—'Balcadavlu' is freely flowering under outdoor growing conditions with substantially continuous blooming from spring through autumn and year-round in greenhouse environment.

Lastingness of individual flower on the plant.—Approximately 5 to 7 days.

Inflorescence description:

General description.—Type: Corymb. Shape: Hemispherical, broad ovate when viewed in profile. Quantity per plant: Approximately 4. Fragrance: None detected. Length or height: 2.8 cm. Width: Approximately 6.0 cm. Quantity of fully open flowers per inflorescence: Approximately 12.

Peduncle.—Strength: Strong. Aspect: Erect. Length: Approximately 1.5 cm. Diameter: Approximately 2.0 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color: 137C.

Flower description:

General description.—Type: Sessile, salverform.

Bud.—Rate of opening: Generally takes 2 to 3 days for bud to progress from first color to fully open flower. Quantity of unopened inflorescences per plant: Approximately 1.

Bud just before opening.—Shape: Elongated, globular at apex. Length: Approximately 1.2 cm. Diameter: Approximately 3.0 mm. Color: Petal portion N81C, sepal portion 137B.

Corolla.—Shape: Round. Diameter: Approximately 2.3 cm. Depth: Approximately 3.1 cm.

Petals.—Quantity: 5, fused at base forming a tube. Shape: Obovate. Arrangement: Free to slightly overlapping. Appearance: Dull. Margin: Entire, weak undulation. Apex: Emarginate. Length of upper petals from tube: Approximately 9.0 mm. Width of upper petals: Approximately 9.0 mm. Length of lateral petals from tube: Approximately 9.0 mm. Width of lateral petals: Approximately 1.0 cm.

Length of lower petal from tube: Approximately 1.2 cm. Width of lower petal: Approximately 1.0 cm. Texture of upper surface: Glabrous with glandular pubescent base. Texture of lower surface: Sparsely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color of upper surface when first open: Lateral and lower petals N81B with medium "eye" area of NN155D at base and 145B at throat opening; upper petals of N81A with an overlay of 71A to 71B at base; 145B at throat opening. Color of lower surface when first open: NN155D with an overlay of N81C; overlay slightly heavier on upper petals. Color of upper surface when fully open: Lateral and lower petals N81C with medium "eye" area of NN155D at base and 145B at throat opening; upper petals of N81B with an overlay of 71B at base; 145B at throat opening. Color of lower surface when fully open: NN155D with an overlay of N81D; overlay slightly heavier on upper petals. Color of whiskers surrounding the opening of the corolla tube: 145D.

Corolla tube.—Length: Approximately 2.1 cm. Diameter at proximal end: Approximately 1.0 mm. Diameter at distal end: Approximately 2.0 mm. Texture of outer surface: Upper half moderately glandular pubescent, lower half glabrous. Gland color: Colorless, transparent. Texture of inner surface: Densely pubescent. Color of outer surface: 145D with 145C at distal end. Color of inner surface: 145D with 145B at throat opening.

Calyx.—Shape: Tubular. Length: Approximately 1.2 cm. Width: Approximately 3.0 mm.

Sepals.—Quantity per flower: 5, fused at base. Shape: Linear. Apex: Multiple acute tips. Length: Approximately 1.2 cm. Width: Approximately 1.0 mm. Tex-

ture of inner surface: Moderately pubescent. Texture of outer surface: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color of inner and outer surfaces: 137B.

Stipules.—Shape: Lanceolate. Apex: Three acute tips arranged in a cross shape. Length: Approximately 7.0 mm. Width at base: Approximately 1.0 mm. Texture of inner surface: Sparsely pubescent. Texture of outer surface: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color of inner and outer surfaces: 144A at base transitioning to 137A at apex.

Reproductive organs.—Androecium: Stamen quantity: 4, didynamous. Stamen length of longer pair: Approximately 2.0 mm. Stamen length of shorter pair: Approximately 1.0 mm. Anther shape: Bilobed, ovoid. Anther length: Approximately 1.0 mm. Anther color: 144B. Pollen amount: Moderate. Pollen color: 1D. Gynoecium: Pistil quantity: 1 per flower. Pistil length: Approximately 1.7 cm. Stigma shape: Bifid. Stigma length: Less than 1.0 mm. Stigma color: 137A. Style length: Approximately 1.6 cm. Style color: 145D. Ovary diameter: Approximately 1.0 mm. Ovary texture: Glabrous. Ovary color: 144B.

Seed and fruit production: Neither seed nor fruit production has been observed.

Disease and pest resistance: Resistance to pathogens and pests common to *Verbena* has not been observed.

What is claimed is:

1. A new and distinct cultivar of *Verbena* plant named 'Balcadavlu', substantially as herein illustrated and described.

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FIG. 1

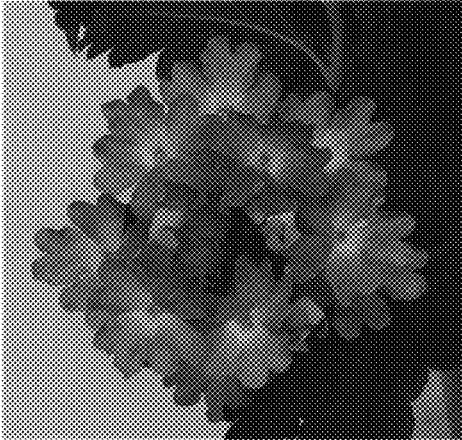


FIG. 2