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(54) **CALIBRACHOA PLANT NAMED ‘Balcabyelim’**

(50) Latin Name: *Calibrachoa x hybrida*

Varietal Denomination: **Balcabyelim**

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A01H 6/82 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./413**

(58) **Field of Classification Search**
USPC **Plt./413**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP24,402 P2 * 4/2014 Ren A01H 6/821
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(57) **ABSTRACT**

A new and distinct cultivar of *Calibrachoa* plant named
‘Balcabyelim’, characterized by its dark yellow-colored
flowers, medium green-colored foliage, and moderately vig-
orous, mounded-trailing growth habit, is disclosed.

1 Drawing Sheet

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2

Latin name of genus and species of plant claimed: *Cali-
brachoa x hybrida*.

Variety denomination: ‘Balcabyelim’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Calibrachoa* plant botanically known as *Calibrachoa x
hybrida* and hereinafter referred to by the cultivar name
‘Balcabyelim’.

The new cultivar originated in a controlled breeding
program in Arroyo Grande, California during May 2018.
The objective of the breeding program was the development
of *Calibrachoa* cultivars with attractive flower coloration,
and a moderately vigorous, mounded-trailing growth habit.

The new *Calibrachoa* cultivar is the result of cross-
pollination. The female (seed) parent of the proprietary
Calibrachoa x hybrida breeding selection coded CAL-
15981-01, not patented, characterized by its light yellow-
colored flowers, medium green-colored foliage, low growth
vigor and mounded-trailing growth habit. The male (pollen)
parent of the new cultivar is the proprietary *Calibrachoa x
hybrida* breeding selection coded CAL-15347-02, not pat-
ented, characterized by its medium red-colored flowers,
medium green-colored foliage, and moderately vigorous,
mounded-trailing growth habit. The new cultivar was dis-
covered and selected as a single flowering plant within the
progeny of the above stated cross-pollination during April
2019 in a controlled environment in Arroyo Grande, Cali-
fornia.

Asexual reproduction of the new cultivar by terminal stem
cuttings since April 2019 in Arroyo Grande, California and
West Chicago, Illinois has demonstrated that the new culti-
var reproduces true to type with all of the characteristics, as

herein described, firmly fixed and retained through succes-
sive generations of such asexual propagation.

SUMMARY OF THE INVENTION

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

- 1. Dark yellow-colored flowers;
- 2. Medium green-colored foliage; and
- 3. Moderately vigorous, mounded-trailing growth habit.

Plants of the new cultivar differ from plants of the female
parent primarily in having darker yellow-colored flowers
and increased growth vigor. Plants of the new cultivar differ
from plants of the male parent in having darker yellow-
colored flowers and slightly increased growth vigor.

Of the many commercially available *Calibrachoa* culti-
vars, the most similar in comparison to the new cultivar is
CABARET Deep Yellow ‘Balcabdepy’, U.S. Plant Pat. No.
24,402. However, in side-by-side comparisons, plants of the
new cultivar differ from plants of ‘Balcabdepy’ in at least the
following characteristics:

- 1. Plants of the new cultivar have green-colored stems
lacking an anthocyanin overlay found on plants of
‘Balcabdepy’; and
- 2. Plants of the new cultivar have a slightly darker yellow
corolla tube outer surface than plants of ‘Balcabdepy’.

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 may differ slightly
from the color values cited in the detailed description, which

accurately describes the colors of 'Balcabyelim'. The approximately 4-month-old plants were grown in 3-gallon containers for approximately 8 weeks in an outdoor nursery in West Chicago, Ill. Treatments are described below in the Detailed Botanical Description.

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

FIG. 2 illustrates a close-up view of an individual flower of 'Balcabyelim'.

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 July 2023 under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe approximately 4-month-old plants produced from cuttings from stock plants and grown under conditions comparable to those used in commercial practice. The plants were grown in West Chicago, Illinois in 3-gallon pots utilizing a soilless growth medium for approximately 8 weeks in an outdoor nursery in West Chicago, Ill. Plants were given three pinches prior to transplant. Eight weeks after cuttings were stuck, plants were sprayed with growth regulators B-NINE (daminozide [butanedioic acid mono (2,2-dimethylhydrazide)]) at 2,500 ppm and CYCOCEL (chlormequat (2-chloroethyl) trimethylammonium chloride) at 800 ppm. Prior to transplant plants were grown in a polycarbonate greenhouse in West Chicago, Ill. Greenhouse temperatures were maintained at approximately 75° F. to 80° F. (24° C. to 27° C.) during the day and approximately 65° F. to 70° F. (18° C. to 21° C.) during the night. Supplemental lighting was used during propagation stage. Measurements and numerical values represent averages of typical plants.

Botanical classification: *Calibrachoa x hybrida* 'Balcabyelim'.

Parentage:

Female parent.—Proprietary *Calibrachoa x hybrida* breeding selection coded CAL-15981-01, not patented.

Male parent.—Proprietary *Calibrachoa x hybrida* breeding selection coded CAL-15347-02, not patented.

Propagation:

Type cutting.—Terminal stem.

Time to initiate roots.—Approximately 6 to 8 days.

Time to produce a rooted cutting.—Approximately 21 to 28 days.

Root description.—Fibrous.

Rooting habit.—Freely branching.

Plant description:

Commercial crop time.—Approximately 6 to 9 weeks from a rooted cutting to finish in a 10 cm pot.

Growth habit and general appearance.—Moderately vigorous, mounded-trailing.

Size.—Height from soil level to top of plant plane: Approximately 19.0 cm. Width: Approximately 67.0 cm.

Branching habit.—Freely branching, pinching enhances basal branching. Quantity of main branches per plant: Approximately 9 basal branches with laterals at potentially every node.

Lateral branch.—Strength: Moderate. Length: Approximately 9.5 to 23.0 cm. Diameter: Approximately 2.0 mm to 5.0 mm. Length of central internode: Approximately 1.5 cm. Texture: Densely pubescent. Color of young stems: 146D. Color of mature stems: 146C, becoming woody 199B with age.

Foliage description:

General description.—Fragrance: None detected. Form: Simple. Arrangement on flowering stem: Opposite.

Leaves.—Aspect: At acute angle to stem with tip turning downward. Shape: Elliptic. Margin: Entire. Apex: Broadly acute. Base: Attenuate. Venation pattern: Pinnate. Length of mature leaf: Approximately 2.8 cm. Width of mature leaf: Approximately 9.0 mm. Texture of upper and lower surfaces: Moderately glandular pubescent. Gland color: Colorless, transparent. Color of upper surface of young and mature foliage: 137A with midvein of 146C. Color of lower surface of young and mature foliage: Closest to 138A with midvein of 146D.

Petiole.—Length: Approximately 3.0 mm. Diameter: Approximately 1.0 mm. Texture: Moderately glandular pubescent. Gland color: Colorless, transparent. Color: 146D.

Flowering description:

Flowering habit.—'Balcabyelim' 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.

Flower description:

General description.—Type: Single, salverform. Quantity per plant: Approximately 350. Fragrance: None detected.

Bud.—Rate of opening: Generally takes 3 to 4 days for bud to progress from first color to fully open flower. Quantity per plant: Approximately 100.

Bud just before opening.—Shape: Oblong. Length: Approximately 2.0 cm. Diameter: Approximately 5.0 mm. Texture: Densely glandular pubescent. Gland color: Colorless, transparent. Color: 1A with venation of N77A.

Corolla.—Diameter: Approximately 3.1 cm.

Petals.—Quantity: 5, fused to form a tube. Shape: Obovate. Margin: Entire. Apex: Rounded. Length from tube: Approximately 1.2 cm. Length of free portion: Approximately 4.0 mm. Width: Approximately 1.5 cm. Texture of upper surface: Glabrous. Texture of lower surface: Glandular pubescent, dense along venation. Gland color: Colorless, transparent. Color of upper surface when first and fully open: 12A to 12B with very faint midveins of N77A. Color of lower surface when fully open: 12C with faint midveins of 144A.

Corolla tube.—Length: Approximately 1.6 cm. Diameter at distal end: Approximately 7.0 mm. Diameter at proximal end: Approximately 1.0 mm. Texture of inner surface: Glabrous. Texture of outer surface: Densely glandular pubescent. Gland color: Colorless, transparent. Color of inner surface: 12C with 15A at throat opening, very faint venation of N77A. Color of outer surface: 12C with venation of 144A and very faint N77A.

Sepals.—Quantity per flower: 5, fused at base. Shape: Lanceolate. Apex: Acute. Length: Approximately 1.4 cm. Width: Approximately 4.0 mm. Texture of upper and lower surfaces: Densely glandular pubescent. Gland color: Colorless, transparent. Color of upper surface: 137A. Color of lower surface: 138A with base of 144B.

Peduncle.—Strength: Strong, flexible. Aspect: Acute angle to stem. Length: Approximately 1.1 cm. Diameter: Approximately 1.0 mm. Texture: Densely glandular pubescent. Gland color: Colorless, transparent. Color: 144B.

Reproductive organs.—Androecium: Stamen quantity: 5, basifixed. Stamen length: Approximately 9.0 mm to 1.1 cm. Filament length of fixed portion: Approximately 5.0 mm. Filament color: 150D. Anther shape: Bilobed, ovoid. Anther length: Approximately 1.0 mm. Anther color: 8C. Pollen amount: Abundant. Pollen color: 8D. Gynoecium: Pistil quantity: 1 per flower. Pistil length: Approximately 1.0 cm. Stigma shape: Funnel. Stigma length: Approximately 1.0 mm. Stigma color: 144A. Style length: Approximately 8.0 mm. Style color: 145B. Ovary diameter: Approximately 2.0 mm. Ovary color: 144A.

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

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

What is claimed is:

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

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FIG. 1



FIG. 2