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Vlieland

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(54) **KALANCHOE PLANT NAMED ‘DOKALLASC’**

(50) Latin Name: *Kalanchoe blossfeldiana*
Varietal Denomination: **Dokallasc**

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(57) **ABSTRACT**

A new and distinct cultivar of *Kalanchoe* plant named
‘Dokallasc’, characterized by its compact, upright and uni-
formly mounded plant habit; moderately vigorous growth
habit; freely branching plant habit; glossy dark green-col-
ored leaves; uniform, early and freely flowering habit; large
bright orange-colored flowers; and excellent postproduction
longevity.

2 Drawing Sheets

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Botanical designation: *Kalanchoe blossfeldiana*.
Cultivar denomination: ‘DOKALLASC’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct *Kal-
anchoe* plant, botanically known as *Kalanchoe blossfeldiana*
and hereinafter referred to by the name ‘Dokallasc’.

The new *Kalanchoe* is a product of a planned breeding
program conducted by the Inventor in De Lier, The Neth-
erlands. The objective of the breeding program is to create
new freely-branching and freely-flowering *Kalanchoe* plants
with attractive leaf and flower coloration.

The new *Kalanchoe* plant originated from a cross-poll-
ination made by the Inventor in De Lier, The Netherlands in
2011 of a proprietary selection of *Kalanchoe blossfeldiana*
identified as code number KA-177, not patented, as the
female, or seed, parent with *Kalanchoe blossfeldiana*
‘Petero’, disclosed in U.S. Plant Pat. No. 12,155, as the
male, or pollen, parent. The new *Kalanchoe* plant was
discovered and selected by the Inventor as a single flowering
plant from within the progeny of the stated cross-pollination
in a controlled environment in De Lier, The Netherlands in
January, 2013.

Asexual reproduction of the new *Kalanchoe* plant by
vegetative terminal cuttings in a controlled environment in
De Lier, The Netherlands since 2014 has shown that the
unique features of this new *Kalanchoe* plant are stable and
reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Kalanchoe* have not been observed
under all possible combinations of environmental conditions
and cultural practices. The phenotype may vary somewhat
with variations in environmental conditions such as tem-
perature, daylength and light intensity without, however, any
variance in genotype.

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The following traits have been repeatedly observed and
are determined to be the unique characteristics of ‘Dokal-
lasc’. These characteristics in combination distinguish
‘Dokallasc’ as a new and distinct *Kalanchoe* plant:

1. Compact, upright and uniformly mounded plant habit.
2. Moderately vigorous growth habit.
3. Freely branching plant habit.
4. Glossy dark green-colored leaves.
5. Uniform, early and freely flowering habit.
6. Large bright orange-colored flowers.
7. Excellent postproduction longevity.

Plants of the new *Kalanchoe* can be compared to plants of
the female parent selection. Plants of the new *Kalanchoe*
differ from plants of the female parent selection in the
following characteristics:

1. Plants of the new *Kalanchoe* are more compact than
plants of the female parent selection.
2. Plants of the new *Kalanchoe* are more freely branching
than plants of the female parent selection.
3. Plants of the new *Kalanchoe* have larger flowers than
plants of the female parent selection.
4. Plants of the new *Kalanchoe* and the female parent
selection differ in flower color as plants of the female
parent selection have lighter orange-colored flowers.

Plants of the new *Kalanchoe* can be compared to plants of
the male parent, ‘Petero’. Plants of the new *Kalanchoe* differ
from plants of ‘Petero’ in the following characteristics:

1. Plants of the new *Kalanchoe* are more compact than
plants of ‘Petero’.
2. Plants of the new *Kalanchoe* are more freely branching
than plants of ‘Petero’.
3. Plants of the new *Kalanchoe* have larger flowers than
plants of ‘Petero’.
4. Plants of the new *Kalanchoe* and ‘Petero’ differ in
flower color as flowers of plants of ‘Petero’ are more
reddish orange in color.

Plants of the new *Kalanchoe* can be compared to plants of
the *Kalanchoe blossfeldiana* ‘Fikaldendi’, disclosed in U.S.

Plant Pat. No. 27,886. In side-by-side comparisons, plants of the new *Kalanchoe* differ primarily from plants of 'Fikaldendi' in flower color as flowers of plants of 'Fikaldendi' are more reddish orange in color.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new *Kalanchoe* plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Kalanchoe* plant.

The photograph on the first sheet is a side perspective view of a typical flowering plant of 'Dokallasc' grown in a container.

The photograph on the second sheet is a close-up view of a typical open flower and flower buds of 'Dokallasc'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations, measurements and values describe plants grown during the autumn in 10-cm containers in a glass-covered greenhouse in De Lier, The Netherlands and under cultural practices typical of commercial *Kalanchoe* production. During the production of the plants, day temperatures ranged from 20° C. to 25° C., night temperatures ranged from 20° C. to 21° C. and light levels ranged from 10,000 lux to 55,000 lux. Plants received long day/short night conditions (more than 14 hours of light) for four weeks then plants received photoinductive short day/long night conditions (minimum 14 hours darkness) until flowering. Plants were 13 weeks old when the photographs were taken and twelve weeks old when the description was taken. In the detailed description, color references are made to The Royal Horticultural Society Colour Chart, 2007 Edition, except where general terms of ordinary dictionary significance are used. Botanical classification: *Kalanchoe blossfeldiana* 'Dokallasc'.

Parentage:

Female, or seed, parent.—Proprietary selection of *Kalanchoe blossfeldiana* identified as code number KA-177, not patented.

Male or pollen parent.—*Kalanchoe blossfeldiana* 'Petero', disclosed in U.S. Plant Pat. No. 12,155.

Propagation:

Type.—By vegetative terminal cuttings.

Time to initiate roots, summer.—About eleven days at temperatures about 21° C.

Time to initiate roots, winter.—About two weeks at temperatures about 21° C.

Time to produce a rooted young plant, summer.—About three weeks at temperatures about 21° C.

Time to produce a rooted young plant, winter.—About four weeks at temperatures about 21° C.

Root description.—Fine, fibrous; typically greyish white in color, actual color of the roots is dependent on substrate composition, water quality, fertilizer type and formulation, substrate temperature and physiological age of roots.

Rooting habit.—Moderately freely branching; medium density.

Plant description:

Plant and growth habit.—Compact, upright and uniformly mounded plant habit; freely flowering habit with numerous cymes positioned above the foliar plane; triangular in shape with rounded crown; appropriate for 10 to 15-cm containers; moderately vigorous growth habit.

Plant height at flowering.—About 16 cm.

Plant diameter at flowering.—About 18 cm.

Branching habit.—Freely branching habit with about six to seven lateral branches developing per plant; pinching (removal of the terminal apex) is not required but will enhance lateral branch development.

Lateral branch description:

Length.—About 12 cm to 15 cm.

Diameter.—About 3 mm to 5 mm.

Internode length.—About 2 cm to 3 cm.

Aspect.—Mostly upright.

Strength.—Moderately strong.

Texture.—Smooth, glabrous.

Color.—Close to 146B.

Leaf description:

Arrangement.—Opposite, simple; generally symmetrical.

Quantity per plant.—Typically about six to ten mature leaves and about six to nine generative leaves.

Length.—About 10 cm.

Width.—About 7 cm.

Shape.—Elliptical.

Apex.—Acute.

Base.—Acute.

Margin.—Crenate.

Texture and luster, upper and lower surfaces.—Smooth, glabrous; coriaceous; succulent; glossy.

Venation pattern.—Pinnate.

Color.—Developing and fully developed leaves, upper surface: Close to 147A; venation, close to 147A to 147B. Developing and fully developed leaves, lower surface: Close to 147B; venation, close to 147B.

Petioles.—Length: About 1.4 cm. Diameter: About 4 mm to 8 mm. Texture, upper and lower surfaces: Smooth, glabrous; coriaceous; succulent. Color, upper surface: Close to 147A to 147B. Color, lower surface: Close to 147B.

Flower description:

Flower arrangement and habit.—Single flowers arranged in axillary cymes; uniform and freely flowering habit with usually more than 25 open flowers and more than 25 flower buds per lateral branch and more than 150 open flowers and flower buds developing per plant; plants flower continuously for at least seven weeks.

Fragrance.—None detected.

Natural flowering season.—Plants of the new *Kalanchoe* initiate and develop flowers under short day/long night conditions or during November and December in the Northern Hemisphere; flower initiation and development can also be induced under artificial short day/long conditions (at least 14 hours of darkness).

Time to flower.—Early flowering habit, under short day/long night photoinductive conditions, plants

begin flowering about eight to ten weeks; actual time to flower is primarily dependent upon temperature and light intensity.

Post-production longevity.—Excellent post-production longevity; plants maintain good foliage and flower substance for about 54 days under interior conditions; individual flowers last about 20 days on the plant; flowers persistent.

Flower diameter.—About 2.1 cm.

Flower length (height).—About 1.5 cm.

Flower buds.—Shape: Initially oblong, becoming tubular ovoid with development. Color, before flower opening: Close to 29B to 29C.

Petals.—Arrangement: Four in a single whorl. Length: About 1 cm. Width: About 6 mm. Aspect: Flat to slightly upright. Shape: Ovate. Apex: Acute. Base: Obtuse. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; shiny. Color: When opening and fully opened, upper surface: Close to 28A fading towards the margins and base close to 21A; color becoming closer to 28B with development. When opening and fully opened, lower surface: Close to between 29D and 28D; color does not change with development.

Sepals.—Appearance: Four in a single whorl. Length: About 9 mm. Width: About 3 mm. Shape: Oblong, pointed. Apex: Acute. Base: Rounded. Margin:

Entire. Aspect: Upright, rigid. Texture and luster, upper and lower surfaces: Smooth; glabrous; shiny. Color, upper and lower surfaces: Close to 138D.

Peduncles.—Length: About 3 mm to 5 mm. Diameter: About 1 mm. Aspect: Erect, rigid. Strength: Moderately strong. Texture: Smooth, glabrous. Color: Close to 138B.

Reproductive organ.—Androecium: Stamen number: About eight per flower. Anther shape: Elliptic, flat. Anther length: About 0.3 mm. Anther color: Close to 150D. Amount of pollen: Scarce. Pollen color: Close to 12A. Gynoecium: Pistil number: About four. Pistil length: About 1 cm. Style length: About 7 mm. Style color: Close to 138D. Stigma shape: Flat. Stigma color: Close to 8D. Ovary color: Close to 138D.

Seeds.—Length: About 0.1 mm. Diameter: About 0.05 mm. Color: Close to 166C.

Temperature tolerance: Plants of the new *Kalanchoe* have been observed to tolerate temperatures from about 16° C. to about 35° C.

Pathogen & pest resistance: Plants of the new *Kalanchoe* have not been observed to be resistant to pests and pathogens common to *Kalanchoe* plants to date.

It is claimed:

1. A new and distinct *Kalanchoe* plant named 'Dokallasc' as illustrated and described.

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