



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

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

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

(75) Inventor: **Ike J. Vlienlander**, De Lier (NL)

(73) Assignee: **Fides B.V.**, De Lier (NL)

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See application file for complete search history.

Primary Examiner — Kent L Bell

(74) *Attorney, Agent, or Firm* — C. A. Whealy

(57) **ABSTRACT**

A new and distinct cultivar of *Kalanchoe* plant named ‘Fikalrumina’, characterized by its compact, upright and uniformly mounded plant habit; moderately vigorous growth habit; freely branching plant habit; glossy green-colored leaves; uniform and freely flowering habit; bright yellow-colored flowers; and excellent postproduction longevity.

1 Drawing Sheet

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

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Kalanchoe* plant, botanically known as *Kalanchoe blossfeldiana* and hereinafter referred to by the name ‘Fikalrumina’.

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

The new *Kalanchoe* plant originated from a cross-pollination made by the Inventor in De Lier, The Netherlands in 2005 of a proprietary selection of *Kalanchoe blossfeldiana* identified as code number 4552 (00), not patented, as the female, or seed, parent with a proprietary selection of *Kalanchoe blossfeldiana* identified as code number 7818 (04), not patented, 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 greenhouse environment in De Lier, The Netherlands.

Asexual reproduction of the new *Kalanchoe* plant by vegetative terminal cuttings in a controlled greenhouse environment in De Lier, The Netherlands since 2007 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 environmental conditions and cultural practices. The phenotype may vary somewhat with variations in environmental conditions such as temperature, daylength and light intensity without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of ‘Fikalrumina’.

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These characteristics in combination distinguish ‘Fikalrumina’ 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 green-colored leaves.
5. Uniform and freely flowering habit.
6. Bright yellow-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* have smaller leaves than plants of the female parent selection.
3. Plants of the new *Kalanchoe* have single-type flowers whereas plants of the female parent selection have double-type flowers.

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

1. Plants of the new *Kalanchoe* are more freely branching and more uniform than plants of the male parent selection.
2. Plants of the new *Kalanchoe* flower later than plants of the male parent selection.
3. Plants of the new *Kalanchoe* have smaller flowers than plants of the male parent selection.
4. Plants of the new *Kalanchoe* and the male parent selection differ in flower color as plants of the male parent selection have yellow and orange bi-colored flowers.

Plants of the new *Kalanchoe* can be compared to plants of *Kalanchoe blossfeldiana* ‘Halla-san’, not patented. In side-by-side comparisons conducted in De Lier, The Netherlands, plants of the new *Kalanchoe* differed from plants of ‘Halla-san’ primarily in the following characteristics:

1. Plants of the new *Kalanchoe* were more compact than plants of ‘Halla-san’.

2. Plants of the new *Kalanchoe* had smaller leaves than plants of 'Halla-san'.
3. Plants of the new *Kalanchoe* had smaller flowers than plants of 'Halla-san'.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates 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 photograph 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 comprises a side perspective view of a typical flowering plant of 'Fikalrumina' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations, measurements and values describe plants grown during the summer and autumn in 13-cm containers in a glass-covered greenhouse in De Lier, The Netherlands and under cultural conditions which closely approximate 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 about four weeks then plants received photoinductive short day/long night conditions (minimum 14 hours darkness) until flowering. Plants were 13 weeks old when the photograph and the description were 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* 'Fikalrumina'.

Parentage:

Female, or seed, parent.—Proprietary selection of *Kalanchoe blossfeldiana* identified as code number 4552 (00), not patented.

Male or pollen parent.—Proprietary selection of *Kalanchoe blossfeldiana* identified as code number 7818 (04), not patented.

Propagation:

Type.—By vegetative terminal cuttings.

Time to initiate roots, summer.—About twelve days at temperatures of 21° C.

Time to initiate roots, winter.—About 16 days at temperatures of 21° C.

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

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

Root description.—Fine, fibrous; greyish white in color.

Rooting habit.—Freely branching; dense.

Plant description:

Plant and growth habit.—Compact, upright and uniformly mounded plant habit; freely flowering habit with numerous cymes positioned above the foliar plane; inverted triangle with rounded crown; appropriate for 5-cm to 13-cm containers; moderately vigorous growth habit.

Plant height at flowering.—About 15 cm.

Plant diameter at flowering.—About 15 cm.

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

5 Lateral branch description:

Length.—About 10 cm to 13 cm.

Diameter.—About 3 mm to 7 mm.

Internode length.—About 2 cm to 3 cm.

Aspect.—Erect.

Strength.—Strong.

Texture.—Smooth, glabrous.

Color.—Close to 137B.

Foliage description:

Arrangement.—Opposite, simple; generally symmetrical; mostly flat; glossy.

Quantity per plant.—About eight to 13 mature leaves and about 14 to 22 generative leaves.

Length.—About 10 cm.

Width.—About 9 cm.

Shape.—Ovate.

Apex.—Obtuse.

Base.—Obtuse.

Margin.—Slightly crenate.

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

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.

Petiole.—Length: About 1.5 cm. Diameter: About 4 mm to 8 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: Close to 147A to 147B.

Flower description:

Flower arrangement and habit.—Flowers arranged singly in cymes that arise from leaf axils; uniform and freely flowering habit with usually about 25 open flowers and about 25 flower buds per lateral branch and more than 150 open flowers and flower buds per plant.

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 Netherlands; flower initiation and development can also be induced under artificial short day/long night conditions (at least 14 hours of darkness).

Time to flower.—Under short day/long night photoinductive conditions, plants begin flowering in about nine to ten weeks; actual time to flower is primarily dependent upon temperature and light intensity; plants flower continuously for at least six weeks.

Post-production longevity.—Excellent post-production longevity; plants maintain good foliage and flower substance for about 41 days under interior environmental conditions; individual flowers last about 18 days on the plant; flowers persistent.

Flower diameter.—About 1.3 cm.

Flower length (height).—About 5 mm.

Flower bud.—Length: About 1 cm. Diameter: About 2 mm. Shape: Initially oblong, becoming tubular ovoid with development. Color: Close to 16C.

Petals.—Arrangement: About four in a single whorl. Length: About 6 mm. Width: About 7 mm. Aspect:

Flat to somewhat upright. Shape: Ovate. Apex: Acute. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening and fully opened, upper surface: Close to more intense than 12A; color does not fade with development. When 5 opening and fully opened, lower surface: Close to 8B to 8C.

Sepals.—Appearance: Four in a single whorl. Length: About 5 mm. Width: About 2 mm. Shape: Oblong, pointed. Apex: Acute. Base: Rounded. Margin: 10 Entire. Aspect: Upright. Texture, upper and lower surfaces: Smooth; glabrous. Color, upper and lower surfaces: Close to 137B.

Peduncles.—Length: About 5 mm. Diameter: About 1 mm. Aspect: Erect. Strength: Strong, rigid. Texture: 15 Smooth, glabrous. Color: Close to 137B.

Reproductive organs.—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 per flower. Pistil length: About 1 mm. Style length: About 1 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 *Kalanchoes*.

It is claimed:

1. A new and distinct *Kalanchoe* plant named ‘Fikalru-mina’ as illustrated and described.

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