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Jepsen

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(54) **KALANCHOE PLANT NAMED 'INGRID'**

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

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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.

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A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./338**

(58) **Field of Classification Search** **Plt./338**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP7,805 P * 2/1992 Fleming Plt./338

OTHER PUBLICATIONS

UPOV ROM GTITM Computer Database 2006/04 Citation for 'Ingrid'.*

* cited by examiner

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(57) **ABSTRACT**

A new and distinct cultivar of *Kalanchoe* plant named 'Ingrid', characterized by its upright, uniform and moderately vigorous growth habit; dark green-colored leaves; uniform, freely and early flowering habit; relatively large light yellow-colored flowers; and excellent postproduction longevity.

1 Drawing Sheet

1

Botanical designation: *Kalanchoe blossfeldiana*.
Cultivar denomination: 'Ingrid'.

BACKGROUND OF THE INVENTION

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

The new *Kalanchoe* is a product of a planned breeding program conducted by the Inventor in Hinnerup, Denmark. The objective of the breeding program is to create new freely-flowering *Kalanchoe* cultivars with attractive foliage and flower coloration.

The new *Kalanchoe* originated from a cross-pollination made by the Inventor in Hinnerup, Denmark in March, 2003, of the *Kalanchoe blossfeldiana* cultivar KJ 2000 0381, not patented, as the female, or seed, parent with the *Kalanchoe blossfeldiana* cultivar Ally, not patented, as the male, or pollen, parent. The cultivar Ingrid was discovered and selected by the Inventor as a flowering plant from within the progeny of the stated cross-pollination in a controlled environment in Hinnerup, Denmark in November, 2003.

Asexual reproduction of the new *Kalanchoe* by vegetative terminal cuttings in a controlled environment in Hinnerup, Denmark since February, 2004, has shown that the unique features of this new *Kalanchoe* are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

The cultivar Ingrid has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment and cultural practices such as temperature, daylength and light intensity without, however, any variance in genotype.

2

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Ingrid'. These characteristics in combination distinguish 'Ingrid' as a new and distinct cultivar of *Kalanchoe*:

- 5 1. Upright, uniform and moderately vigorous growth habit.
2. Dark green-colored leaves.
3. Uniform, freely and early flowering habit.
- 10 4. Relatively large light yellow-colored flowers.
5. Excellent postproduction longevity.

Plants of the new *Kalanchoe* can be compared to plants of the parent cultivars. Plants of the new *Kalanchoe* differ from plants of the parent cultivars primarily in plant size and flower color.

Plants of the new *Kalanchoe* can be compared to plants of the *Kalanchoe blossfeldiana* cultivar Ann, disclosed in U.S. Plant patent application Ser. No. 11/324,508. In side-by-side comparisons conducted in Hinnerup, Denmark, plants of the new *Kalanchoe* differed from plants of the cultivar Ann in the following characteristics:

- 15 1. Plants of the new *Kalanchoe* were more compact than plants of the cultivar Ann.
- 25 2. Plants of the new *Kalanchoe* flowered earlier than plants of the cultivar Ann.
3. Plants of the new *Kalanchoe* and the cultivar Ann differed in flower color.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new *Kalanchoe*, 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*.

The photograph at the top of the sheet comprises a side perspective view of a typical flowering plant of 'Ingrid' grown in a container.

The photograph at the bottom of the sheet comprises a top perspective view of a typical flowering plant of 'Ingrid' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The photographs and following observations, measurements and values describe plants grown in Hinnerup, Denmark in a glass-covered greenhouse during the winter and under conditions which closely approximate commercial production. During the production of the plants, day temperatures were about 19° C., night temperatures were about 21° C. and light levels ranged from 10 kilolux to 50 kilolux. Unrooted cuttings were directly stuck in 10-cm containers and received long day/short night conditions (more than 14 hours of light) for about two weeks; plants then received photoinductive short day/long night conditions (minimum 14 hours darkness) until flowering. Plants were about 15 weeks old when the photographs and the description were taken. In the detailed description, color references are made to The Royal Horticultural Society Colour Chart, 2001 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Kalanchoe blossfeldiana* cultivar Ingrid.

Parentage:

Female, or seed, parent.—*Kalanchoe blossfeldiana* cultivar KJ 2000 0381, not patented.

Male or pollen parent.—*Kalanchoe blossfeldiana* cultivar Ally, not patented.

Propagation:

Type.—By vegetative terminal cuttings.

Time to initiate roots.—About two to three weeks at temperatures of 19° C. to 21° C.

Time to produce a rooted young plant.—About 21 to 24 days at temperatures of 19° C. to 21° C.

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

Rooting habit.—Freely branching; moderately dense.

Plant description:

Plant habit.—Upright, uniform and moderately vigorous growth habit. Very freely flowering with numerous compound cymes. Inverted triangle with rounded crown. Appropriate for 6-cm to 10-cm containers.

Plant height at flowering.—About 19 cm.

Plant diameter at flowering.—About 20 cm.

Branching habit.—Usually about four to five lateral branches develop per plant. Pinching (removal of the terminal apex) is not required but will enhance lateral branch development.

Lateral branch description:

Length.—About 13 cm.

Diameter.—About 4 mm.

Internode length.—About 1 cm to 2 cm.

Aspect.—Erect.

Strength.—Strong.

Texture.—Smooth, glabrous.

Color.—147B.

Foliage description:

Arrangement.—Opposite, simple; generally symmetrical.

Length, vegetative plants.—About 8 cm to 12 cm.

Width, vegetative plants.—About 6 cm to 7.5 cm.

Length, generative plants.—About 3 cm to 12 cm.

Width, generative plants.—About 2 cm to 7.5 cm.

Shape.—Ovate.

Apex.—Rounded.

Base.—Rounded.

Margin.—Crenate.

Texture, upper and lower surfaces.—Glabrous; leathery; succulent.

Venation pattern.—Pinnate.

Color.—Developing and fully developed foliage, upper surface: 147A; venation, 147A. Developing and fully developed foliage, lower surface: 147B; venation, 147B.

Petiole.—Length: About 1 cm to 1.8 cm. Diameter: About 3 mm to 5 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: 147B.

Flower description:

Flower arrangement and habit.—Single flowers arranged singly in compound dichasial cymes that arise from leaf axils. Uniform and freely flowering habit with usually about 32 to 88 open flowers per inflorescence. Flowers not persistent. Flowers not fragrant.

Natural flowering season.—Plants of the new *Kalanchoe* initiate and develop flowers under short day/long night conditions or during the late autumn/winter/early spring. 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, about 66 days are required. 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 six weeks under interior environmental conditions.

Inflorescence height.—About 7 cm to 12 cm.

Inflorescence diameter.—About 4 cm to 7 cm.

Flower diameter.—About 2 cm.

Flower length (height).—About 9 mm.

Flower bud.—Shape: Initially lanceolate, becoming ovate with development. Length: About 1.4 cm. Diameter: About 3 mm to 4 mm. Color: 10B; towards the base, 1B.

Petals.—Arrangement: Four fused at the base. Length: About 1.5 cm. Width: About 8 mm. Aspect: Slightly upright. Shape: Ovate to rounded. Apex: Rounded acute. Margin: Entire to crenate. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper surface: 11A. When opening, lower surface: 10A. Fully opened, upper surface: 10A; color becoming closer to 10B with development. Fully opened, lower surface: 10C.

Sepals.—Appearance: Four fused at the base. Length: About 8 mm. Width: About 3 mm. Shape: Lanceolate. Apex: Acute. Margin: Entire. Texture, upper and lower surfaces: Smooth; glabrous. Color, immature, upper and lower surfaces: 144A. Color, mature, upper and lower surfaces: 144B.

Peduncles.—Length: About 1 mm to 5 mm. Diameter: About 1 mm to 2 mm. Aspect: Erect to perpendicular to vertical. Strength: Strong. Texture: Smooth, glabrous. Color: 137A to 144B.

5

Reproductive organs.—Androecium: Stamen number: About eight per flower. Anther shape: Elliptic, flat. Anther size: About 1 mm by 1 mm. Anther color: Close to 22A. Amount of pollen: Moderate. Pollen color: Close to 20A. Gynoecium: Pistil number: About four per flower. Pistil length: About 0.8 mm. Style length: About 0.7 mm. Style color: 144B. Stigma shape: Rounded. Stigma color: 144C. Ovary color: 144B.

Seed.—Length: Less than 1 mm. Diameter: Less than 1 mm. Color, immature: 145B. Color, mature: 177A.

6

Temperature tolerance: Plants of the new *Kalanchoe* have been observed to tolerate temperatures from about 5° C. to about 30° 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 'Ingrid' as illustrated and described.

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