

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

(10) **Patent No.:** **US PP32,482 P2**  
(45) **Date of Patent:** **Nov. 17, 2020**

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

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

(71) Applicant: **DUMMEN GROUP B.V.**, De Lier  
(NL)

(72) Inventor: **Ike Vlieland**, De Lier (NL)

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

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/602,998**

(22) Filed: **Jan. 13, 2020**

(51) **Int. Cl.**  
**A01H 5/02** (2018.01)  
**A01H 6/32** (2018.01)

(52) **U.S. Cl.**  
USPC ..... **Plt./336**  
CPC ..... **A01H 6/324** (2018.05)

(58) **Field of Classification Search**  
USPC ..... **Plt./336**  
CPC ..... **A01H 5/02**  
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  
‘Dokalwilis’, characterized by its relatively compact,  
upright and uniformly mounded plant habit; moderately  
vigorous growth habit; freely branching plant habit; glossy  
dark green-colored leaves; uniform, early and freely flow-  
ering habit; pure white-colored flowers; and excellent post-  
production longevity.

**1 Drawing Sheet**

**1**

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

**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 ‘Dokalwilis’.

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  
August, 2012 of *Kalanchoe blossfeldiana* ‘Cora’, disclosed  
in U.S. Plant Pat. No. 12,301, as the female, or seed, parent  
with *Kalanchoe blossfeldiana* ‘Kikai’, 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 environment in De Lier, The Netherlands in  
August, 2013.

Asexual reproduction of the new *Kalanchoe* plant by  
vegetative terminal cuttings in a controlled environment in  
De Lier, The Netherlands since 2013 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.

**2**

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

1. Relatively 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. Pure white-colored flowers.
7. Excellent postproduction longevity.

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

1. Plants of the new *Kalanchoe* are larger than plants of  
‘Cora’.
2. Plants of the new *Kalanchoe* are more freely branching  
than plants of ‘Cora’.
3. Plants of the new *Kalanchoe* and ‘Cora’ differ in flower  
color as plants of the new *Kalanchoe* have white-  
colored flowers whereas plants of ‘Cora’ have pink-  
colored flowers.

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

1. Plants of the new *Kalanchoe* are larger than plants of  
‘Kikai’.
2. Plants of the new *Kalanchoe* are more freely branching  
than plants of ‘Kikai’.
3. Plants of the new *Kalanchoe* and ‘Kikai’ differ in flower  
color as plants of the new *Kalanchoe* have pure white-  
colored flowers whereas plants of ‘Kikai’ have mostly  
white-colored flowers that are tinged with yellow when  
opening and become tinged with pink with subsequent  
development.



Plants of the new *Kalanchoe* can be compared to plants of the *Kalanchoe blossfeldiana* 'Hekla', not patented. In side-by-side comparisons, plants of the new *Kalanchoe* differ primarily from plants of 'Hekla' in the following characteristics:

1. Plants of the new *Kalanchoe* are more compact than plants of 'Hekla'.
2. Plants of the new *Kalanchoe* are more freely branching than plants of 'Hekla'.
3. Plants of the new *Kalanchoe* flower one week earlier than plants of 'Hekla'.
4. Plants of the new *Kalanchoe* have larger flowers than plants of 'Hekla'.
5. Plants of the new *Kalanchoe* have longer postproduction longevity than plants of 'Hekla'.

#### 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 (FIG. 1) is a side perspective view of a typical flowering plant of 'Dokalwilis' grown in a container.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph 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 18° C. to 20° C., night temperatures averaged 18° C. and light levels ranged from 10,000 lux to 50,000 lux. Plants received long day/short night conditions (more than 14 hours of light) for three weeks then plants received photoinductive short day/long night conditions (minimum 14 hours darkness) until flowering. Plants were eleven weeks old when the photograph was 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* 'Dokalwilis'.

Parentage:

*Female, or seed, parent.*—*Kalanchoe blossfeldiana* 'Cora', disclosed in U.S. Plant Pat. No. 12,301.

*Male or pollen parent.*—*Kalanchoe blossfeldiana* 'Kikai', not patented.

Propagation:

*Type.*—By vegetative terminal cuttings.

*Time to initiate roots, summer.*—About 14 days at temperatures about 21° C.

*Time to initiate roots, winter.*—About 16 days 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 to reddish brown 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 to sparse.

Plant description:

*Plant and growth habit.*—Relatively 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 5 to 10-cm containers; moderately vigorous growth habit; moderate growth rate.

*Plant height at flowering.*—About 14 cm.

*Plant diameter at flowering.*—About 16 cm.

*Branching habit.*—Freely branching habit with about nine to twelve 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 10 cm to 13 cm.

*Diameter.*—About 2 mm to 5 mm.

*Internode length.*—About 2 cm to 3 cm.

*Aspect.*—Mostly upright.

*Strength.*—Moderately strong.

*Texture and luster.*—Smooth, glabrous; semi-glossy.

*Color, developing and developed.*—Close to 146B.

Leaf description:

*Arrangement.*—Opposite, simple; generally symmetrical.

*Length.*—About 9 cm.

*Width.*—About 5.5 cm.

*Shape.*—Ovate to elliptic.

*Apex.*—Obtuse.

*Base.*—Obtuse.

*Margin.*—Vaulted.

*Texture and luster, upper surface.*—Smooth, glabrous; coriaceous; succulent; glossy.

*Texture and luster, lower surface.*—Smooth, glabrous; coriaceous; succulent; matte.

*Venation pattern.*—Pinnate.

*Color.*—Developing and fully developed leaves, upper surface: Close to 137A; venation, close to 137A.

Developing and fully developed leaves, lower surface: Close to 148B; venation, close to 148B.

*Petioles.*—Length: About 1.5 cm. Diameter: About 4 mm to 7 mm. Strength: Moderately strong. Texture and luster, upper and lower surfaces: Smooth, glabrous; coriaceous; succulent; glossy. Color, upper surface: Close to 138A. Color, lower surface: Close to 139C.

Flower description:

*Flower arrangement and habit.*—Single-type 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; flowers face mostly upright to outwardly depending on the position in the inflorescence.

*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. 5

*Post-production longevity.*—Excellent post-production longevity; plants maintain good foliage and flower substance for about 59 days under interior conditions; individual flowers last about 19 days on the plant; flowers persistent. 10

*Flower diameter.*—About 1.4 cm. 15

*Flower length (height).*—About 2 cm.

*Flower buds.*—Length: About 9 mm. Diameter: About 4 mm. Shape: Ovoid. Texture and luster: Smooth, glabrous; glossy. Color: Close to 147D.

*Petals.*—Arrangement: Four in a single whorl. Length: About 9 mm. Width: About 8.5 mm. Aspect: Flat to slightly upright. Shape: Ovate. Apex: Acute. Base: Obtuse. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; slightly glossy. Color: When opening, upper and lower surfaces: Close to NN155C. Fully opened, upper surface: Close to NN155D; venation, close to NN155D; color does not change with development. Fully opened, lower surface: Close to NN155C; venation, close to NN155C; color does not change with development. 20

*Sepals.*—Appearance: Four in a single whorl. Length: About 8 mm. Width: About 1.5 mm. Shape: Oblong, 25

pointed. Apex: Acute. Base: Obtuse. Margin: Entire. Aspect: Upright, rigid. Texture and luster, upper and lower surfaces: Smooth; glabrous; slightly glossy. Color, upper and lower surfaces: Close to 147D.

*Peduncles.*—Length: About 3 mm to 4 mm. Diameter: About 1 mm to 2 mm. Aspect: Erect, rigid. Strength: Strong. Texture: Smooth, glabrous. Color: Close to 137C.

*Reproductive organs.*—Androecium: Stamen number: If present, about eight per flower. Filament length: About 3 mm. Filament color: Close to 155C. Anther size: About 0.1 mm by 0.3 mm. Anther shape: Elliptic, flat. Anther color: Close to 150D. Amount of pollen: Scarce. Pollen color: Close to 12A. Gynoecium: Pistil number: About four. Pistil length: About 8 mm. Style length: About 7 mm. Style color: Close to 138D. Stigma shape: Flat. Stigma color: Close to 8D, crystalline. Ovary color: Close to 138D.

*Seeds.*—Quantity per flower: If developed, up to 30 seeds per flower. Length: About 0.1 mm. Diameter: About 0.05 mm. Texture: Rough. 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. 25

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

It is claimed:

1. A new and distinct *Kalanchoe* plant named 'Dokawilis' as illustrated and described. 30

\* \* \* \* \*



