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Vlieland

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(54) **KALANCHOE PLANT NAMED ‘PAGO’**

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

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

(73) Assignee: **Fides Goldstock Breeding B.V.**,
Maasland (NL)

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patent is extended or adjusted under 35
U.S.C. 154(b) by 108 days.

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(52) **U.S. Cl.** **Plt./340**

(58) **Field of Classification Search** **Plt./340**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP10,454 P * 6/1998 Vlieland Plt./335
PP12,155 P2 * 10/2001 Vlieland Plt./340
PP13,587 P2 * 2/2003 Vlieland Plt./340

OTHER PUBLICATIONS

UPOV ROM GTITM Computer Database, GTI Jouve
Retrieval Software 2004/06 Citation for ‘Pago’.*

* cited by examiner

Primary Examiner—Kent Bell

Assistant Examiner—W. C. Haas

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

(57) **ABSTRACT**

A new and distinct cultivar of *Kalanchoe* plant named
‘Pago’, characterized by its numerous large yellow orange
and orange bi-colored flowers; upright, uniform and com-
pact plant habit; freely branching growth habit; dark green
glossy leaves; early flowering; and excellent postproduction
longevity.

1 Drawing Sheet

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

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
‘Pago’.

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 was to create
new freely-branching and freely-flowering *Kalanchoe* cul-
tivars with attractive foliage and flower coloration.

The new *Kalanchoe* is a naturally-occurring whole plant
mutation of the *Kalanchoe blossfeldiana* cultivar Petero,
disclosed in U.S. Plant Pat. No. 12,155. The cultivar Pago
was discovered and selected by the Inventor as a single
flowering plant within a population of plants of the parent
cultivar in a controlled environment in De Lier, The
Netherlands, in December, 1999.

Asexual reproduction of the new *Kalanchoe* by terminal
vegetative cuttings taken at De Lier, The Netherlands, since
2000 has shown that the unique features of this new *Kal-
anchoe* are stable and reproduced true to type in successive
generations.

BRIEF SUMMARY OF THE INVENTION

The cultivar Pago has not been observed under all pos-
sible environmental conditions. The phenotype may vary
somewhat with variations in environment 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 ‘Pago’.
These characteristics in combination distinguish ‘Pago’ as a
new and distinct cultivar:

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1. Large and numerous yellow orange and orange
bi-colored flowers.
2. Upright, uniform and compact plant habit.
3. Freely branching growth habit.
4. Dark green-colored glossy leaves.
5. Early flowering.
6. Excellent postproduction longevity.

Plants of the new *Kalanchoe* are most similar to plants of
the parent, the cultivar Petero. In side-by-side comparisons
conducted by the Inventor in De Lier, The Netherlands,
plants of the new *Kalanchoe* differed from plants of the
cultivar Petero in the following characteristics:

1. Plants of the new *Kalanchoe* were more compact than
plants of the cultivar Petero.
2. Plants of the new *Kalanchoe* were more freely branch-
ing than plants of the cultivar Petero.
3. Plants of the new *Kalanchoe* flowered earlier than
plants of the cultivar Petero.
4. Plants of the new *Kalanchoe* had tighter (not as open)
umbels than plants of the cultivar Petero.
5. Flower color of plants of the new *Kalanchoe* was
yellow orange and orange bi-colored whereas flower
color of plants of the cultivar Petero was orange.

Plants of the new *Kalanchoe* can also be compared to
plants of the cultivar Klabat, disclosed in U.S. Plant Pat. No.
10,454. In side-by-side comparisons conducted in De Lier,
The Netherlands, plants of the new *Kalanchoe* differed from
plants of the cultivar Klabat in the following characteristics:

1. Plants of the new *Kalanchoe* were more compact than
plants of the cultivar Klabat.
2. Plants of the new *Kalanchoe* flowered earlier than
plants of the cultivar Klabat.
3. Plants of the new *Kalanchoe* and the cultivar Klabat
differed in flower coloration.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates 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 photograph may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Kalanchoe*. The photograph comprises a side perspective view of a typical potted plant of 'Pago'.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Colour Chart except where general terms of ordinary dictionary significance are used. Plants used for the aforementioned photograph and for the description were grown during the autumn in De Lier, The Netherlands, in a glass-covered greenhouse. During the production of the plants, day temperatures ranged from 20 to 25° C.; night temperatures ranged from 19 to 21° C.; and light levels ranged from 10,000 to 50,000 lux. Unrooted cuttings were directly stuck in 12.5-cm containers and received long day/short night conditions (more than 14 hours of light) for about three weeks; plants then received photoinductive short day/long night conditions (minimum 14 hours darkness) until flowering. Plants were about 13 weeks old from an unrooted cutting when the photograph and the description were taken.

Botanical classification: *Kalanchoe blossfeldiana* cultivar Pago.

Parentage: Naturally-occurring whole plant mutation of the *Kalanchoe blossfeldiana* cultivar Petero, disclosed in U.S. Plant Pat. No. 12,155.

Propagation:

Type cutting.—Terminal vegetative cuttings.

Time to initiate roots.—Summer: About 12 days at 21° C. Winter: About 15 days at 21° C.

Time to produce a rooted cutting.—Summer: About 21 days at 21° C. Winter: About 28 days at 21° C.

Root description.—Numerous, fine, fibrous, and well-branched.

Plant description:

Form.—Upright, uniform and compact plant habit. Very freely flowering with numerous compound cymes. Inverted triangle with rounded crown. Appropriate for 10 to 15-cm containers.

Crop time.—About 11 to 14 weeks; 3 to 4 weeks under long day/short night conditions followed by 8 to 10 weeks of short day/long night conditions. Moderately vigorous growth rate.

Plant height at flowering.—About 18 cm.

Plant diameter at flowering.—About 16 cm.

Branching habit.—Freely branching; typically six to seven lateral branches develop per plant. Pinching (removal of terminal apex) is not required but will enhance lateral branch development.

Lateral branch description.—Length: About 11 to 14 cm. Diameter: About 3 to 6 mm. Internode length: About 2 to 3 cm. Aspect: Erect. Strength: Moderately strong. Texture: Smooth, glabrous. Color: 147A.

Foliage description.—Leaves simple, opposite, generally symmetrical. Quantity per plant: About 8 to 13 mature leaves and 12 to 18 generative leaves. Length: About 10 cm. Width: About 7.5 cm. Shape: Elliptic. Apex: Acute. Base: Acute. Margin: Crenate. Texture: Leathery, glabrous and succulent. Color: Developing and fully expanded leaves, upper surface: 147A; glossy. Developing and fully expanded leaves, lower surface: 147B. Venation, upper sur-

face: 147A. Venation, lower surface: 147B. Petiole length: About 1.2 cm. Petiole diameter: About 3 mm by 7 mm. Petiole color, upper and lower surfaces: 147A to 147B.

Flower description:

Flower type and habit.—Single flowers arranged in compound dichasial cymes that arise from leaf axils. Freely flowering; more than 25 open flowers per lateral branch and more than 150 open flowers per plant. Flowering continuously for at least seven weeks. Flowers 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 night conditions (at least 14 hours of darkness).

Time to flower.—Under short day/long night photoinductive conditions, about eight to ten weeks 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 39 days under interior environmental conditions. Individual flowers last about 18 days on the plant.

Flower diameter.—About 1.9 cm.

Flower height.—About 1.4 cm.

Flower buds.—Shape: Initially oblong, becoming tubular ovoid with development. Length: About 1 cm. Width: About 4 mm. Color: Initially, 138C, then 33D with development.

Petals.—Quantity: Four fused at base. Length: About 8.5 mm. Width: About 6 mm. Aspect: Flat to slightly upright. Shape: Ovate. Apex: Obtuse. Margin: Entire. Texture: Glabrous, smooth. Color: When opening and fully opened, upper surface: Towards the apex, 23A; towards the base, 28B. With development color becoming closer to 23B towards the apex and 29C towards the base. When opening and fully opened, lower surface: Towards the apex, 29D; towards the base, 32D.

Sepals.—Quantity: Four fused at base. Length: About 5 mm. Width: About 1.5 mm. Aspect: Erect. Shape: Oblong. Apex: Acute. Base: Obtuse. Margin: Entire. Texture: Glabrous, smooth. Color, upper and lower surfaces: 137D.

Peduncles.—Length: About 3 to 8 mm. Diameter: About 2 mm. Aspect: Erect. Strength: Strong, flexible. Texture: Smooth, leathery. Color: 138C.

Reproductive organs.—Stamens: Quantity per flower: Eight. Anther shape: Elliptic; flat. Anther length: About 0.3 mm. Anther color: Close to 150D. Pollen amount: Scarce. Pollen color: Close to 12A. Pistils: Quantity per flower: Four. Style length: About 1 mm. Style color: 138D. Stigma shape: Flat rounded. Stigma color: 8D. Ovary color: 138D.

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

Disease/pest resistance: Plants of the new *Kalanchoe* have not been observed to be resistant to pathogens and pests common to *Kalanchoe*.

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

Garden performance: Plants of the new *Kalanchoe* perform have been observed to perform well in the garden and are tolerant to rain and wind.

It is claimed:

1. A new and distinct cultivar of *Kalanchoe* plant named 'Pago', as illustrated and described.

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