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Klemm

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(54) **NEW GUINEA IMPATIENS PLANT NAMED
‘KLEI01024’**

(50) Latin Name: *Impatiens hawkeri*
Varietal Denomination: **KLEI01024**

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patent is extended or adjusted under 35
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(51) **Int. Cl.⁷** **A01H 5/00**
(52) **U.S. Cl.** **Plt./318**
(58) **Field of Search** **Plt./318**

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(57) **ABSTRACT**

A new and distinct cultivar of New Guinea Impatiens plant
named ‘KLEI01024’, characterized by its mounded and
outwardly spreading plant habit; freely branching growth
habit; dark green-colored leaves; freely flowering habit with
flowers positioned above or beyond the foliage; and large
bright orange red-colored flowers.

1 Drawing Sheet

1

Botanical classification/cultivar designation: *Impatiens hawkeri* cultivar KLEI01024.

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct culti-
var of New Guinea Impatiens plant, botanically known as
Impatiens hawkeri, and hereinafter referred to by the cultivar
name KLEI01024.

The new Impatiens is a product of a planned breeding
program conducted by the Inventor in Stuttgart, Germany.
The objective of the breeding program is to develop new
freely branching Impatiens cultivars with numerous large
flowers and interesting flower and foliage colors.

The new Impatiens originated from a cross-pollination
made by the Inventor during the fall of 1998 of a proprietary
Impatiens hawkeri selection identified as code number A
045, not patented, as the female, or seed parent, with a
proprietary *Impatiens hawkeri* selection identified as code
number P 110, not patented, as the male, or pollen parent.
The cultivar KLEI01024 was discovered and selected by the
Inventor as a flowering plant within the progeny of the stated
cross-pollination in controlled environment in Stuttgart,
Germany, in May, 1999.

Asexual reproduction of the new cultivar by terminal
cuttings taken in a controlled environment in Stuttgart,
Germany, since 1999, has shown that the unique features of
this new Impatiens are stable and reproduced true to type in
successive generations.

SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and
are determined to be the unique characteristics of
‘KLEI01024’. These characteristics in combination distin-
guish ‘KLEI01024’ as a new Impatiens cultivar and distin-
guish it from other known Impatiens cultivars:

1. Mounded and outwardly spreading plant habit.
2. Freely branching growth habit.
3. Dark green-colored leaves.
4. Freely flowering habit with flowers positioned above or
beyond the foliage.
5. Large bright orange red-colored flowers.

2

Plants of the new Impatiens are larger than and differ from
plants of the female parent selection in flower color as plants
of the female selection have violet-colored flowers. Plants of
the new Impatiens differ from plants of the male parent
selection primarily in flower color as plants of the male
parent have crimson red-colored flowers.

Plants of the new Impatiens can be compared to plants of
the cultivar Colombo, disclosed in U.S. Plant Pat. No.
11,710. In side-by-side comparisons conducted in Stuttgart,
Germany, plants of the new Impatiens differed from plants
of the cultivar Colombo in the following characteristics:

1. Plants of the new Impatiens were larger than plants of
the cultivar Colombo.
2. Plants of the new Impatiens were not as freely branch-
ing as plants of the cultivar Colombo.
3. Plants of the new Impatiens had larger flowers than
plants of the cultivar Colombo.
4. Plants of the new Impatiens and cultivar Colombo
differed in flower color.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the
overall appearance of the new cultivar, showing the colors as
true as it is reasonably possible to obtain in colored repro-
ductions 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
Impatiens.

The photograph comprises a side perspective view of a
typical flowering plant of ‘KLEI01024’ grown in a con-
tainer.

DETAILED BOTANICAL DESCRIPTION

The cultivar KLEI01024 has not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as tempera-
ture and light intensity without, however, any variance in
genotype. The aforementioned photograph and following
observations and measurements describe plants grown in
Stuttgart, Germany during the spring, under commercial

practice in a glass-covered greenhouse. Plants were grown in 12-cm containers for about 12 weeks after planting rooted cuttings. During the production period, day temperatures ranged from 18 to 24° C. and night temperatures ranged from 16 to 18° C. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Impatiens hawkeri* cultivar KLEI01024.

Commercial classification: New Guinea *Impatiens* cultivar KLEI01024.

Parentage:

Female parent.—Proprietary *Impatiens hawkeri* selection identified as code number A 045, not patented.

Male parent.—Proprietary *Impatiens hawkeri* selection identified as code number P 110, not patented.

Propagation:

Type cutting.—Terminal cuttings.

Time to initiate roots.—About 10 days at 20° C.

Time to produce a rooted cutting.—About 21 days at 20° C.

Root description.—Fine and fibrous; cream-white in color.

Rooting habit.—Freely branching, dense.

Plant description:

General appearance.—Mounded and outwardly spreading plant habit.

Growth and branching habit.—Freely branching, about five lateral branches per plant develop without pinching, that is, removal of the terminal apices. Vigorous growth habit; densely foliated.

Plant height.—About 14 cm.

Plant spread.—About 28 cm.

Lateral branch description.—Length: About 9.5 cm. Diameter: About 7 mm. Internode length: About 2.5 cm. Texture: Smooth, glabrous. Color: 183B.

Foliage description.—Arrangement: Opposite or in whorls. Length, mature leaves: About 13 cm. Width, mature leaves: About 4.3 cm. Shape: Lanceolate, oblong. Apex: Acuminate. Base: Attenuate. Margin: Serrulate with fine ciliation. Texture, both surfaces: Smooth, glabrous, leathery. Venation pattern: Pinnate. Color: Young foliage, upper surface: 147A; glossy. Young foliage, lower surface: 138C. Fully expanded foliage, upper surface: 139A; glossy. Fully expanded foliage, lower surface: 138C. Venation, upper surface: Towards the apex, 147D; towards the base, 184B. Venation, lower surface: 184C. Petiole: Length: About 1.5 cm. Diameter: About 3.5 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: 184B.

Flower description:

Flower type and flowering habit.—Single, large and rounded flowers. Freely flowering, usually about seven flowers and flower buds in clusters per lateral branch. Flowers positioned above and beyond the

foliage and typically face upward or outward. Flowers mostly flat when fully opened. Flowers last about 10 to 14 days on the plant depending on environmental conditions. Petals self-cleaning; gynoecium persistent. Flowers not fragrant. Flowering indeterminate and continuous.

Flowering season.—Year-round under greenhouse conditions. In the garden, flowering from spring until fall.

Flower length.—About 7.4 cm.

Flower width.—About 7.1 cm.

Flower depth (thickness).—About 1.3 cm.

Flower buds.—Rate of opening: From flower bud to fully open flower, typically about five to seven days depending on temperature. Length: About 1.6 cm. Diameter: About 9 mm. Shape: Ovoid. Texture: Smooth, glabrous. Color: 34A.

Petals.—Quantity: Five per flower, imbricate. Length: Banner petal: About 3.2 cm. Lateral petals: About 3.3 cm. Lower petals: About 3.9 cm. Width: Banner petal: About 5.6 cm. Lateral petals: About 3.6 cm. Lower petals: About 4.7 cm. Shape: Roughly cordate. Apex: Emarginate. Base: Rounded to acute. Margin: Entire. Texture: Smooth; satiny. Color: When opening and fully opened, upper surface: 33A; color fading to 33B with development. When opening and fully opened, lower surface: 33B.

Spur.—Length: About 5.5 cm. Diameter: At flower: About 3 mm. At apex: About 0.7 mm. Texture: Smooth, glabrous. Color: 184B.

Peduncles.—Length: About 6.5 cm. Diameter: About 1.8 mm. Strength: Strong, flexible. Aspect: About 45° from the stem. Texture: Smooth, glabrous. Color: 182B.

Reproductive organs.—Androecium: Stamen number: Five fused at anthers, filaments free, hooded. Anther shape: Obovate. Anther length: About 6 mm. Anther width: About 3.5 mm. Anther height: About 1.3 mm. Anther color: Creamy white, close to 157A. Amount of pollen: Abundant. Pollen color: Creamy white, close to 157A. Gynoecium: Pistil number: One. Pistil length: About 8 mm. Stigma shape: Columnar, five-segmented. Stigma color: Creamy white, close to 157A. Style color: Creamy white, close to 157A. Ovary color: 143A.

Fruit/seed development.—Fruit and seed development has not been observed.

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

Weather tolerance: In Stuttgart, Germany, plants of the new *Impatiens* have been observed to be relatively tolerant to wind and rain and to tolerate temperatures from 12 to 30° C.

It is claimed:

1. A new and distinct cultivar of New Guinea *Impatiens* plant named 'KLEI01024', as illustrated and described.

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