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**Klemm**

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(54) **NEW GUINEA *IMPATIENS* PLANT NAMED  
'KLEI04075'**

(51) **Int. Cl.**  
**A01H 5/00** (2006.01)

(50) Latin Name: ***Impatiens hawkeri***  
Varietal Denomination: **KLEI04075**

(52) **U.S. Cl.** ..... **Plt./318**  
(58) **Field of Classification Search** ..... **Plt./318**  
See application file for complete search history.

(75) Inventor: **Nils Klemm**, Stuttgart (DE)

*Primary Examiner*—Kent Bell  
*Assistant Examiner*—June Hwu

(73) Assignee: **Klemm + Sohn GmbH + Co. KG**,  
Stuttgart (DE)

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

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

(57) **ABSTRACT**

A new and distinct cultivar of New Guinea *Impatiens* plant  
named 'KLEI04075', characterized by its compact and  
rounded plant habit; freely branching habit; freely flowering  
habit; dark green-colored foliage; and large dark orange-  
colored flowers.

(21) Appl. No.: **11/343,851**

(22) Filed: **Jan. 31, 2006**

**1 Drawing Sheet**

## 1

Botanical designation: *Impatiens hawkeri*.  
Cultivar denomination: 'KLEI04075'.

### 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 name  
'KLEI04075'.

The new *Impatiens* is a product of a planned breeding  
program conducted by the Inventor in Stuttgart, Germany.  
The objective of the breeding program was to create freely-  
branching and upright New Guinea *Impatiens* with large  
flowers, attractive flower coloration and good postproduc-  
tion longevity.

The new New Guinea *Impatiens* originated from a cross-  
pollination conducted during in September, 2000 of a pro-  
prietary selection of New Guinea *Impatiens* identified as  
code number T 291, not patented, as the female, or seed,  
parent with a proprietary selection of New Guinea *Impatiens*  
identified as code number T 295, not patented, as the male,  
or pollen, parent. The cultivar KLEI04075 was discovered  
and selected by the Inventor as a single plant within the  
progeny of the stated cross-pollination in a controlled envi-  
ronment in Stuttgart, Germany in May, 2001.

Asexual reproduction of the new cultivar by terminal  
cuttings in Stuttgart, Germany since July, 2001, 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  
'KLEI04075'. These characteristics in combination distin-  
guish 'KLEI04075' as a new and distinct *Impatiens* cultivar:

1. Compact and rounded plant habit.
2. Freely branching habit.
3. Freely flowering habit.
4. Dark green-colored foliage.
5. Large dark orange-colored flowers.

## 2

Plants of the new *Impatiens* differ from plants of the  
parent selections primarily in plant size and habit.

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

1. Plants of the new *Impatiens* had larger leaves than  
plants of the cultivar Colombo.
2. Leaf margins of plants of the new *Impatiens* were entire  
whereas leaf margins of plants of the cultivar Colombo  
were serrated.
3. Plants of the new *Impatiens* had larger flowers than  
plants of the cultivar Colombo.

### 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 'KLEI04075' grown in  
a container.

### DETAILED BOTANICAL DESCRIPTION

The cultivar KLEI04075 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, following obser-  
vations and measurements describe plants grown during the  
spring in Stuttgart, Germany, under commercial production  
practice in a glass-covered greenhouse and then grown in an  
outdoor nursery during the summer. Plants were about 4.5  
months old when the aforementioned photograph and fol-  
lowing observations and measurements were taken. During  
the production of the plants in the greenhouse, day tempera-  
tures ranged from 18° C. to 24° C., night temperatures



ranged from 16° C. to 18° C. During the production of the plants of the outdoor nursery, day temperatures ranged from 15° C. to 34° C., night temperatures ranged from 8° C. to 20° 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 KLEI04075.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Impatiens hawkeri* identified as code number T 291, not patented.

*Male, or pollen, parent.*—Proprietary selection of *Impatiens hawkeri* identified as code number T 295, not patented.

Propagation:

*Type cutting.*—Terminal tip cuttings.

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

*Time to produce a rooted young plant.*—About three weeks at 20° C.

*Root description.*—Medium to fine, fibrous; creamy white in color.

*Rooting habit.*—Freely branching; dense.

Plant description:

*General appearance.*—Compact and rounded plant habit; freely branching and freely flowering habit. Moderately vigorous.

*Plant height.*—About 30 cm.

*Plant diameter or spread.*—About 43 cm.

*Lateral branches.*—Quantity per plant: About twelve. Length: About 26.5 cm. Diameter: About 7 mm. Internode length: About 6 cm. Texture: Smooth, glabrous. Color: Towards the apex, 184B; towards the base, 144A.

*Foliage description.*—Arrangement: Opposite or in whorls. Length: About 16 cm. Width: About 4.4 cm. Shape: Oblong to lanceolate. Apex: Acuminate. Base: Attenuate. Margin: Entire with ciliation. Texture, upper and lower surfaces: Smooth, glabrous; leathery. Color: Developing and fully expanded foliage, upper surface: 147A. Developing and fully expanded foliage, lower surface: 147D. Venation, upper surface: 184B; towards the apex, 138A. Venation, lower surface: 184B. Petiole: Length: About 3 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 rounded-shaped flowers. Freely and continuously flowering; usually about nine flower buds and flowers per lateral branch. Flowers positioned above the

foliage; flowers typically face parallel to the leaf canopy. Petals not persistent; gynoecium persistent. Flowers not fragrant.

*Flower longevity.*—Flowers last about one week on the plant.

*Flowering season.*—Year-round under greenhouse conditions. Plants begin flowering about 45 days after planting.

*Flower buds.*—Length: About 1.5 cm. Diameter: About 9 mm. Shape: Ovoid. Color: 184A.

*Flower diameter.*—About 7.1 cm by 7.6 cm.

*Flower depth.*—About 8 mm.

*Petals.*—Quantity: Five per flower, imbricate. Length: Banner petal: About 3.3 cm. Lateral petals: About 3.4 cm. Basal petals: About 3.8 cm. Width: Banner petal: About 5 cm. Lateral petals: About 4.7 cm. Basal petals: About 4.6 cm. Shape: Cordate. Apex: Emarginate. Base: Cuneate to obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; satiny. Color: When opening and fully opened, upper surface: 41A. When opening and fully opened, lower surface: 40A.

*Spur.*—Quantity: One per flower. Length: About 5.4 cm. Diameter: At apex: About 1 mm. At flower: About 2.5 mm. Aspect: Curved. Texture: Smooth, glabrous. Color: 185B.

*Sepals.*—Quantity: Two per flower. Length: About 1.5 cm. Width: About 5 mm. Shape: Ovate. Apex: Acuminate. Base: Obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: Close to 184A.

*Peduncles.*—Length: About 4.8 cm. Diameter: About 2.5 mm. Texture: Smooth, glabrous. Strength: Strong, flexible. Color: 184A.

*Reproductive organs.*—Androecium: Stamen number: Five fused at anthers, hooded; filaments free. Anther length: About 1 mm. Anther shape: Oval. Anther color: Close to 4D. Pollen amount: Abundant. Pollen color: Close to 4D. Gynoecium: Pistil quantity: One per flower. Pistil length: About 6 mm. Stigma shape: Rounded. Stigma color: Close to 6D. Style color: Close to 6D. Ovary: Five-celled. Ovary color: 144A.

*Seed/fruit.*—Seed and fruit development has not been observed.

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

Temperature tolerance: Plants of the new *Impatiens* have been observed to tolerate temperatures from about 4° C. to about 37° C.

It is claimed:

1. A new and distinct cultivar of New Guinea *Impatiens* plant named 'KLEI04075', as illustrated and described.

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