



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

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(54) **NEW GUINEA *IMPATIENS* PLANT NAMED  
'KLEI04074'**

(50) Latin Name: *Impatiens hawkeri*  
Varietal Denomination: **KLEI04074**

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patent is extended or adjusted under 35  
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(52) **U.S. Cl.** ..... **Plt./318**  
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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of New Guinea *Impatiens* plant  
named 'KLEI 04074', characterized by its compact and  
rounded plant habit; freely branching habit; freely flowering  
habit; dark green-colored foliage; and large bright pink-  
colored flowers with red purple-colored centers.

**1 Drawing Sheet**

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Botanical designation: *Impatiens hawkeri*.  
Cultivar denomination: 'KLEI04074'.

**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  
'KLEI04074'.

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 the New  
Guinea *Impatiens* cultivar KLEI01027, disclosed in U.S.  
Plant Pat. No. 14,231, as the female, or seed, parent with a  
proprietary selection of New Guinea *Impatiens* identified as  
code number S 588, not patented, as the male, or pollen,  
parent. The cultivar KLEI04074 was discovered and  
selected by the Inventor as a single plant within the progeny  
of the stated cross-pollination in a controlled environment 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  
'KLEI04074'. These characteristics in combination distin-  
guish 'KLEI04074' 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.

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5. Large bright pink-colored flowers with red purple-  
colored centers.

Plants of the new *Impatiens* can be compared to plants of  
the female parent, the cultivar KLEI01027. In side-by-side  
comparisons conducted in Stuttgart, Germany, plants of the  
new *Impatiens* differed from plants of the cultivar  
KLEI01027 primarily in flower size as plants of the new  
*Impatiens* had larger flowers than plants of the cultivar  
KLEI01027. In addition, plants of the new *Impatiens* had  
duller leaves with more ciliation on the margins than plants  
of the cultivar KLEI01027.

Plants of the new *Impatiens* can be compared to plants of  
the male parent selection. In side-by-side comparisons con-  
ducted in Stuttgart, Germany, plants of the new *Impatiens*  
differed from plants of the male parent selection in the  
following characteristics:

1. Plants of the new *Impatiens* were less vigorous than  
plants of the male parent selection.
2. Plants of the new *Impatiens* had larger flowers than  
plants of the male parent selection.
3. Plants of the new *Impatiens* and the male parent  
selection differed in flower coloration.

Plants of the new *Impatiens* can also be compared to  
plants of the cultivar Grenada, disclosed in U.S. Plant Pat.  
No. 9,343. In side-by-side comparisons plants of the new  
*Impatiens* differed from plants of the cultivar Grenada in the  
following characteristics:

1. Plants of the new *Impatiens* were more vigorous than  
plants of the cultivar Grenada.
2. Plants of the new *Impatiens* and the cultivar Grenada  
differed in flower coloration.

**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 'KLEI04074' grown in a container.

#### DETAILED BOTANICAL DESCRIPTION

The cultivar KLEI04074 has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature and light intensity, without, however, any variance in genotype. The aforementioned photograph, following observations 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 following observations and measurements were taken. During the production of the plants in the greenhouse, day temperatures ranged from 18° C. to 24° C., night temperatures ranged from 16° C. to 18° C. During the production of the plants in 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 KLEI04074.

Parentage:

*Female, or seed, parent.*—*Impatiens hawkeri* cultivar KLEI01027, disclosed in U.S. Plant Pat. No. 14,231.

*Male, or pollen, parent.*—Proprietary selection of *Impatiens hawkeri* identified as code number S 588, 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 28 cm.

*Plant diameter or spread.*—About 45 cm.

*Lateral branches.*—Quantity per plant: About 13. Length: About 20 cm. Diameter: About 7 mm. Internode length: About 6 cm. Texture: Smooth, glabrous. Color: 178B.

*Foliage description.*—Arrangement: Opposite or in whorls. Length: About 13 cm. Width: About 4 cm. Shape: Oblong to lanceolate. Apex: Acuminate. Base: Attenuate. Margin: Serrulate with ciliation. Texture, upper and lower surfaces: Smooth, glabrous; leathery. Color: Developing foliage, upper surface: 137A. Developing foliage, lower surface: 138C. Fully expanded foliage, upper surface: 139A. Fully expanded foliage, lower surface: 138C. Venation, upper surface: 181B; towards the apex, 138C. Venation, lower surface: Midvein, 181B; lateral veins, 183A. Petiole: Length: About 1.2 cm.

Diameter: About 3.5 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: 181B.

Flower description:

*Flower type and flowering habit.*—Single large rounded to oval-shaped flowers. Freely and continuously flowering; usually about eight 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 six weeks after planting.

*Flower buds.*—Length: About 1.2 cm. Diameter: About 9 mm. Shape: Ovoid. Color: 184A.

*Flower diameter.*—About 6.5 cm by 6.7 cm.

*Flower depth.*—About 1.4 cm.

*Petals.*—Quantity: Five per flower, imbricate. Length: Banner petal: About 3.1 cm. Lateral petals: About 3.4 cm. Basal petals: About 3.7 cm. Width: Banner petal: About 4.9 cm. Lateral petals: About 3.7 cm. Basal petals: About 3.8 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: 62A; towards the base, 57A; color becoming closer to 62B with development. When opening and fully opened, lower surface: 62A.

*Spur.*—Quantity: One per flower. Length: About 6.6 cm. Diameter: At apex: About 0.8 mm. At flower: About 2 mm. Aspect: Curved. Texture: Smooth, glabrous. Color: 181A.

*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 6.5 cm. Diameter: About 2 mm. Texture: Smooth, glabrous. Strength: Strong, flexible. Color: 181A.

*Reproductive organs.*—Androecium: Stamen number: Five fused at anthers, hooded; filaments free. Anther length: About 6 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: 143A.

*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 'KLEI04074', as illustrated and described.

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