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(54) **NEW GUINEA IMPATIENS PLANT NAMED**  
**'FISIMP 102'**

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(57) **ABSTRACT**

A new and distinct cultivar of New Guinea Impatiens plant  
named 'Fisimp 102', characterized by its outwardly  
spreading, tall and uniformly mounded plant habit; freely  
branching and freely flowering habit; large rounded orange  
red-colored flowers that are positioned above and beyond  
the foliage; and medium green-colored leaves.

**1 Drawing Sheet**

**1**

**BOTANICAL CLASSIFICATION/CULTIVAR  
DESIGNATION**

*Impatiens hawkeri* cultivar Fisimp 102.

**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  
'Fisimp 102'.

The new Impatiens is a product of a planned breeding  
program conducted by the Inventor in Hilscheid, Germany.  
The objective of the breeding program is to develop new  
vigorous Impatiens cultivars that flower relatively early with  
large rounded flowers and attractive flower colors.

The new Impatiens originated from a cross made by the  
Inventor in July, 1999 of the *Impatiens hawkeri* cultivar  
BFP-467 Cherry Red, disclosed in U.S. Plant Pat. No. 9,520,  
as the female, or seed, parent with the *Impatiens hawkeri*  
cultivar Danharmgta, disclosed in U.S. Plant Pat. No.  
12,093, as the male, or pollen, parent. The cultivar Fisimp  
102 was discovered and selected by the Inventor as a  
flowering plant within the progeny of the stated cross in a  
controlled environment in Moncarapacho, Portugal in  
March, 2000.

Asexual reproduction of the new cultivar by terminal  
cuttings taken in Moncarapacho, Portugal, since March,  
2000, has shown that the unique features of this new  
Impatiens are stable and reproduced true to type in succes-  
sive generations.

**SUMMARY OF THE INVENTION**

The following traits have been repeatedly observed and  
are determined to be the unique characteristics of 'Fisimp  
102'. These characteristics in combination distinguish  
'Fisimp 102' as a new and distinct Impatiens cultivar:

1. Outwardly spreading, tall and uniformly mounded plant habit.
2. Freely branching and freely flowering habit.
3. Large rounded orange red-colored flowers that are positioned above and beyond the foliage.
4. Medium green-colored leaves.

**2**

Plants of the new Impatiens can be compared to plants of  
the female parent, the cultivar BFP-467 Cherry Red. In  
side-by-side comparisons conducted by the Inventor in  
Hilscheid, Germany, plants of the new Impatiens differed  
from plants of the cultivar BFP-467 Cherry Red in the  
following characteristics:

1. Plants of the new Impatiens flowered later than plants of the cultivar BFP-467 Cherry Red.
2. Flowers of plants of the new Impatiens were orange red in color whereas flowers of plants of the cultivar BFP-467 Cherry Red were cherry red in color.

Plants of the new Impatiens can be compared to plants of  
the male parent, the cultivar Danharmgta. In side-by-side  
comparisons conducted by the Inventor in Hilscheid,  
Germany, plants of the new Impatiens differed from plants  
of the cultivar Danharmgta in the following characteristics:

1. Plants of the new Impatiens were more vigorous than plants of the cultivar Danharmgta.
2. Plants of the new Impatiens had lighter green-colored leaves than plants of the cultivar Danharmgta.
3. Plants of the new Impatiens flowered later than plants of the cultivar Danharmgta.
4. Flowers of plants of the new Impatiens were orange red in color whereas flowers of plants of the cultivar Danharmgta were red purple in color.

Plants of the new Impatiens and the cultivar Fisimp 551,  
disclosed in a U.S. Plant patent application Ser. No. 10/087,  
966, filed concurrently, differ primarily in flower color.

Plants of the new Impatiens can also be compared to  
plants of the cultivar BFP-605, disclosed in U.S. Plant Pat.  
No. 10,078. In side-by-side comparisons conducted by the  
Inventor in Hilscheid, Germany, plants of the new Impa-  
tiens differed from plants of the cultivar BFP-605 in the  
following characteristics:

1. Plants of the new Impatiens were larger and more freely branching than plants of the cultivar BFP-605.
2. Plants of the new Impatiens had shorter internodes than plants of the cultivar BFP-605.
3. Plants of the new Impatiens had larger and lighter green-colored leaves than plants of the cultivar BFP-605.
4. Plants of the new Impatiens had larger and flatter flowers than plants of the cultivar BFP-605.

5. Flowers of plants of the new *Impatiens* were slightly lighter orange red in color than flowers of plants of the cultivar BFP-605.

Plants of the new *Impatiens* can also be compared to plants of the cultivar Harmony Orange, not patented. In side-by-side comparisons conducted by the Inventor in Hillscheid, Germany, plants of the new *Impatiens* differed from plants of the cultivar Harmony Orange in the following characteristics:

1. Plants of the new *Impatiens* were taller than plants of the cultivar Harmony Orange.
2. Plants of the new *Impatiens* had lighter green-colored leaves than plants of the cultivar Harmony Orange.
3. Plants of the new *Impatiens* had flatter flowers than plants of the cultivar Harmony Orange.
4. Flowers of plants of the new *Impatiens* were lighter orange red in color than flowers of plants of the cultivar Harmony Orange.

#### 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 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 *Impatiens*. The photograph comprises a side perspective view of a typical flowering plant of 'Fisimp 102' grown in a container.

#### DETAILED BOTANICAL DESCRIPTION

The cultivar Fisimp 102 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 in Langley, British Columbia, Canada, under commercial practice in a greenhouse. Rooted young plants were planted in 17.5-cm containers during the spring and the aforementioned photograph and following observations and measurements were taken during the summer about 17 weeks later. During the production of the plants, day temperatures ranged from 21 to 24° C. and night temperatures were about 17 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 Fisimp 102.

Parentage:

*Female parent.*—*Impatiens hawkeri* cultivar BFP-467 Cherry Red, disclosed in U.S. Plant Pat. No. 9,520.

*Male parent.*—*Impatiens hawkeri* cultivar Danharmgta, disclosed in U.S. Plant Pat. No. 12,093.

Propagation:

*Type cutting.*—Terminal tip cuttings.

*Time to initiate roots.*—Summer: About 8 to 9 days at 24° C. Winter: About 10 days at 21° C.

*Time to produce a rooted cutting.*—Summer: About 15 days at 24° C. Winter: About 18 days at 21° C.

*Root description.*—Numerous, fibrous, and freely branching; 159A in color.

Plant description:

*General appearance.*—Outwardly spreading, tall and uniformly mounded plant growth habit; freely branching habit, dense and bushy appearance; freely flowering. Vigorous.

*Crop time.*—From a rooted cutting, about 10 to 11 weeks are required to produce finished flowering plants in 12-cm containers.

*Plant height.*—About 26 cm.

*Plant diameter or spread.*—About 60.2 cm.

*Lateral branches.*—Quantity per plant: About 19. Length: About 21.5 cm. Diameter: About 10.5 mm. Internode length: About 2.5 cm. Texture: Smooth, glabrous. Color: 179A to 181A.

*Foliage description.*—Arrangement: Primarily in whorls. Length: About 16 cm. Width: About 5.3 cm. Shape: Elliptic. Apex: Acuminate. Base: Acute. Margin: Serrulate with ciliation. Texture: Smooth, slightly rugose; glabrous. Color: Young foliage, upper surface: 137A to 137B. Young foliage, lower surface: 139C. Fully expanded foliage, upper surface: 137A. Fully expanded foliage, lower surface: 139C. Venation, upper surface: 144C; towards the base, 37C. Venation, lower surface: 48A. Petiole: Length: About 3.25 cm. Diameter: About 3.5 mm. Texture: Smooth, glabrous. Color: Upper surface: 48A. Lower surface: 47C.

Flower description:

*Flower type and flowering habit.*—Single; large rounded orange red-colored flowers; mostly flat. Freely and continuously flowering; usually about 6 to 8 flowers and flower buds per lateral branch. Flowers positioned above and beyond the foliage and typically face parallel to the leaf canopy. Petals not persistent; gynoecium persistent. Flowers not fragrant.

*Flower longevity.*—Flowers last about 8 to 9 days on the plant.

*Flowering season.*—Year-round under greenhouse conditions. Plants begin flowering about 11 weeks after planting.

*Flower buds.*—Length: About 2 cm. Diameter: About 1.5 cm. Shape: Ovoid. Color: 33A.

*Flower length.*—About 7.9 cm.

*Flower width.*—About 7.2 cm.

*Flower depth.*—About 1 cm.

*Petals.*—Quantity: Five per flower, imbricate. Length: Banner petals: About 3.3 cm. Lateral and base petals: About 3.8 cm. Width: Banner petal: About 5.5 cm. Lateral and base petals: About 4.25 cm. Shape: Roughly cordate. Apex: Emarginate. Base: Attenuate. Margin: Entire; slightly wavy. Aspect: Mostly flat. Texture: Smooth; satiny. Color: When opening, upper surface: 43A to 40A. When opening, lower surface: 40A to 40B. Fully opened, upper surface: 40A; color becoming closer to 33A with subsequent development. Fully opened, lower surface: 40A to 40B.

*Spur.*—Quantity: One per flower. Length: About 6 cm. Diameter: At apex: About 0.5 mm. At flower: About 3 mm. Aspect: Curved. Color: 53C.

*Peduncles*.—Length: About 5.3 cm. Diameter: About 2 mm. Texture: Smooth, glabrous. Strength: Strong, flexible. Angle: About 45° from the lateral branch. Color: Close to 181B.

*Reproductive organs*.—Androecium: Stamen number: Five fused at anthers, hooded; filaments free. Anther length: About 5.5 mm. Anther shape: Obovate. Anther color: 43B to 43C. Pollen amount: Moderate. Pollen color: 8D. Gynoecium: Pistil quantity: One per flower. Pistil length: About 6 mm. Stigma color: 18D. Style color: 18D. Ovary: Five-celled. Ovary color: 143B.

*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.

It is claimed:

1. A new and distinct cultivar of New Guinea Impatiens plant named 'Fisimp 102', as illustrated and described.

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