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(54) **NEW GUINEA IMPATIENS PLANT NAMED ‘FISIMP 104’**

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(57) **ABSTRACT**

A new and distinct cultivar of New Guinea Impatiens plant named ‘Fisimp 104’, characterized by its outwardly spreading, tall and uniformly mounded plant habit; freely branching and freely flowering habit; large rounded light red-colored flowers with a small white-colored eye that are positioned above and beyond the foliage; and medium green-colored leaves.

**1 Drawing Sheet**

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**BOTANICAL CLASSIFICATION/CULTIVAR DESIGNATION**

*Impatiens hawkeri* cultivar Fisimp 104.

**BACKGROUND OF THE INVENTION**

The present Invention relates to a new and distinct cultivar of New Guinea Impatiens plant, botanically known as *Impatiens hawkeri*, and hereinafter referred to by the name ‘Fisimp 104’.

The new Impatiens is a product of a planned breeding program conducted by the Inventor in Hillscheid, 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, 1997 of the *Impatiens hawkeri* cultivar Riviera Hot Rose, not patented, as the female, or seed, parent with the *Impatiens hawkeri* cultivar BSR-195 Salmon, disclosed in U.S. Plant Pat. No. 8,870, as the male, or pollen, parent. The cultivar Fisimp 104 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, 1998.

Asexual reproduction of the new cultivar by terminal cuttings taken in Moncarapacho, Portugal, since March, 1998, 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 ‘Fisimp 104’. These characteristics in combination distinguish ‘Fisimp 104’ 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 light red-colored flowers with a small white-colored eye that are positioned above and beyond the foliage.

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4. Medium green-colored leaves.

Plants of the new Impatiens can be compared to plants of the female parent, the cultivar Riviera Hot Rose. In side-by-side comparisons conducted by the Inventor in Hillscheid, Germany, plants of the new Impatiens differed from plants of the cultivar Riviera Hot Rose in the following characteristics:

1. Plants of the new Impatiens were more vigorous and larger than plants of the cultivar Riviera Hot Rose.
2. Plants of the new Impatiens flowered later than plants of the cultivar Riviera Hot Rose.
3. Flowers of plants of the new Impatiens were more orange in color than flowers of plants of the cultivar Riviera Hot Rose.

Plants of the new Impatiens can be compared to plants of the male parent, the cultivar BSR-195 Salmon. In side-by-side comparisons conducted by the Inventor in Hillscheid, Germany, plants of the new Impatiens differed from plants of the cultivar BSR-195 Salmon in the following characteristics:

1. Plants of the new Impatiens had lighter green-colored leaves than plants of the cultivar BSR-195 Salmon.
2. Flowers of plants of the new Impatiens were light red-colored with a small white-colored eye whereas flowers of plants of the cultivar BSR-195 Salmon were light red-colored with faded light pink-colored areas towards the base of the petals.

Plants of the new Impatiens can also be compared to plants of the cultivar Balcelisow, disclosed in U.S. Plant Pat. No. 12,087. In side-by-side comparisons conducted by the Inventor in Hillscheid, Germany, plants of the new Impatiens differed from plants of the cultivar Balcelisow in the following characteristics:

1. Plants of the new Impatiens were larger and more vigorous than plants of the cultivar Balcelisow.
2. Plants of the new Impatiens had solid green-colored leaves whereas plants of the cultivar Balcelisow had green and yellow variegated leaves.
3. Flowers of plants of the new Impatiens were light red-colored with a small white-colored eye whereas flowers

of plants of the cultivar Balcelisow were light red and light pink bi-colored.

### 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 104' grown in a container.

### DETAILED BOTANICAL DESCRIPTION

The cultivar Fisimp 104 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 104.

Parentage:

*Female parent*.—*Impatiens hawkeri* cultivar Riviera Hot Rose, not patented.

*Male parent*.—*Impatiens hawkeri* cultivar BSR-195 Salmon, disclosed in U.S. Plant Pat. No. 8,870.

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; 158D 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 25.9 cm.

*Plant diameter or spread*.—About 67.6 cm.

*Lateral branches*.—Quantity per plant: About 15. Length: About 24 cm. Diameter: About 8.5 mm. Internode length: About 4.75 cm. Texture: Smooth, glabrous. Color: Young stems, 144A; older stems, 181A to 181B.

*Foliage description*.—Arrangement: Primarily in whorls. Length: About 14.3 cm. Width: About 4.7

cm. Shape: Narrowly elliptic to elliptic. Apex: Acuminate. Base: Acute. Margin: Serrulate with ciliation. Texture: Smooth, slightly rugose; glabrous. Color: Young foliage, upper surface: 137D. Young foliage, lower surface: 139C. Fully expanded foliage, upper surface: 137A to 137B. Fully expanded foliage, lower surface: 139C. Venation, upper surface: 143C; towards the base, 47C. Venation, lower surface: 145B. Petiole: Length: About 3.75 cm. Diameter: About 3.5 mm. Texture: Smooth, glabrous. Color: Upper surface: 47C. Lower surface: 48B.

Flower description:

*Flower type and flowering habit*.—Single; large rounded light red-colored flowers with a small white-colored eye; mostly flat. Freely and continuously flowering; usually about 6 to 9 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 9 to 10 weeks after planting.

*Flower buds*.—Length: About 1 cm. Diameter: About 1 cm. Shape: Ovoid. Color: 155D.

*Flower length*.—About 6.9 cm.

*Flower width*.—About 6.6 cm.

*Flower depth*.—About 1 cm.

*Petals*.—Quantity: Five per flower, imbricate. Length: Banner petals: About 2.8 cm. Lateral and base petals: About 3 cm. Width: Banner petal: About 3.9 cm. Lateral and base petals: About 3.1 cm. Shape: Roughly cordate. Apex: Emarginate. Base: Attenuate. Margin: Entire. Aspect: Mostly flat. Texture: Smooth; satiny. Color: When opening, upper surface: 43A. When opening, lower surface: 43C. Fully opened, upper surface: 43A to 43C; towards base or eye, 155D, small; color fading to 43D with subsequent development. Fully opened, lower surface: 43C.

*Spur*.—Quantity: One per flower. Length: About 6 cm. Diameter: At apex: About 0.5 mm. At flower: About 2.5 mm. Aspect: Curved. Color: Close to 43C.

*Peduncles*.—Length: About 6 cm. Diameter: About 2 mm. Texture: Smooth, glabrous. Strength: Strong, flexible. Angle: About 45° from the lateral branch. Color: Close to 144A.

*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 4.5 mm. Stigma color: 18D. Style color: 18D. Ovary: Five-celled. Ovary color: 143C.

*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 104', as illustrated and described.

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