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# United States Patent [19]

## Trees

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[54] **NEW GUINEA IMPATIENS PLANT NAMED 'BALCEBFRO'**

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[51] **Int. Cl.**<sup>7</sup> ..... **A01H 5/00**

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[58] **Field of Search** ..... **Plt./318**

### [56] **References Cited**

#### U.S. PATENT DOCUMENTS

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### [57] **ABSTRACT**

A new and distinct cultivar of New Guinea Impatiens plant named 'Balcebfro', characterized by its numerous white-colored flowers; upright and mounded plant habit; medium to compact plant size; good basal branching; and dark green leaves.

### **1 Drawing Sheet**

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### **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 cultivar name, 'Balcebfro'.

The new Impatiens is a product of a planned breeding program conducted by the Inventor in Arroyo Grande, Calif. The objective of the breeding program was to develop new cultivars with excellent basal branching, compact upright growth habit, numerous large flowers, and interesting flower and foliage colors.

The new Impatiens originated from a cross made by the Inventor of the *Impatiens hawkeri* cultivar 'Moorea', disclosed in U.S. Plant Pat. No. 9,147, as the male, or pollen parent, with the proprietary *Impatiens hawkeri* selection BFP-505 as the female, or seed parent. The cultivar 'Balcebfro' was discovered and selected by the Inventor as a flowering plant within the progeny of the stated cross in a controlled environment in Arroyo Grande, Calif., in December, 1996.

Asexual reproduction of the new cultivar by terminal cuttings taken at Arroyo Grande, Calif., has shown that the unique features of this new Impatiens are stable and reproduced true to type in successive generations of asexual reproduction.

### **SUMMARY OF THE INVENTION**

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

1. Numerous white-colored flowers.
2. Upright and mounded plant habit.
3. Medium to compact plant size.
4. Good basal branching.
5. Dark green leaves.

The new Impatiens can be compared to the parent cultivar 'Moorea'. However, in side-by-side comparisons conducted in Arroyo Grande, Calif., plants of the new Impatiens differ

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from plants of the cultivar 'Moorea' in the following characteristics:

1. Plants of the new Impatiens are not as broad as plants of the cultivar 'Moorea'.
2. Plants of the new Impatiens are more freely branching than plants of the cultivar 'Moorea'.
3. Plants of the new Impatiens are more freely flowering, but have slightly smaller flowers than plants of the cultivar 'Moorea'.

A detailed comparison of plants of the cultivar 'Balcebfro' and the cultivar 'Moorea' appears in Chart A at the end of the specification.

### **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. The photograph comprises a side perspective view of a typical plant of 'Balcebfro'. Flower and foliage colors in the photograph may appear different than the actual colors due to light reflectance.

### **DETAILED BOTANICAL DESCRIPTION**

The cultivar 'Balcebfro' 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 following observations, measurements and comparisons describe plants grown in 10-cm pots in Arroyo Grande, Calif., under commercial practice in a glass-covered greenhouse with day temperatures about 20 to 22° C., night temperatures about 18 to 20° C., and light levels generally about 2,500 to 3,000 footcandles.

In the following description, color references are made to The Royal Horticultural Society Colour Chart except where general terms of ordinary dictionary significance are used.



Botanical classification: *Impatiens hawkeri* cultivar 'Balceb-fro'.

Parentage:

*Male parent.*—*Impatiens hawkeri* 'Moorea', disclosed in U.S. Plant patent application Ser. No. 9,147.

*Female parent.*—Proprietary *Impatiens hawkeri* selection BFP-505.

Propagation:

*Type cutting.*—Terminal cuttings.

*Time to initiate roots.*—About 7 days at 18° C.

*Time to develop roots.*—About 21 days at 18° C.

*Rooting habit.*—Fibrous, fine, freely branching.

Plant description:

*General appearance.*—Upright and mounded; medium to compact plant size. Appropriate for 10 and 12.5-cm containers.

*Growth and branching habit.*—Good basal branching with about six to eight lateral branches at the base, dense and bushy growth. Pinching, that is, removal of the terminal apices, is usually not required.

*Crop time.*—Starting with a rooted cutting, about ten weeks are required to produce a finished flowering plant in a 10-cm container.

*Plant height.*—About 13 to 14 cm.

*Plant width.*—About 16 to 19 cm.

*Lateral branches.*—Length: About 11 to 13 cm. Diameter: About 7 to 8 mm. Internode length: About 3 to 4 cm. Color: 144A.

*Foliage description.*—Leaves simple, generally symmetrical, abundant, in whorls or opposite. Length: About 6 to 8 cm. Width: About 2 to 3 cm. Shape: Lanceolate. Apex: Acuminate. Base: Attenuate. Margin: Serrate/ciliate. Texture: Slightly rugose; glabrous; glossy. Color: Young foliage, upper surface: Between 147A and 147B. Young foliage, lower surface: 147B. Fully expanded foliage, upper surface: 147A. Fully expanded foliage, lower surface: 147B. Venation, upper surface: 145B. Venation, lower surface: 145B. Petiole: Length: About 1.5 to 1.8 cm. Diameter: About 2 to 4 mm. Color: 149D.

Flower description:

*Flower type and habit.*—White-colored flowers. Freely and continuously flowering. Flowers arise from leaf axils. Usually about eight or nine flowers and flower buds per lateral branch. Flowers positioned mostly above the foliage and typically face outward to upward. Flowers generally flat and rounded. Flowers persistent.

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

*Flower longevity.*—Flowers last about one week depending on temperature, light level, and water status.

*Flower size.*—Diameter: About 6 to 6.5 cm. Depth: About 1 cm.

*Flower buds.*—Length: About 1.5 to 1.7 cm. Diameter: About 9 to 11 mm. Shape: Elliptic. Color: 144D.

*Petals.*—Quantity: Five, overlapping. Length: About 2 to 3 cm. Width: About 3 to 4 cm. Shape: Cordate. Apex: Retuse. Base: Attenuate. Margin: Entire. Texture: Smooth. Color: When opening and fully opened, upper surface: 155D, iridescent. When opening and fully opened, lower surface: 155D, iridescent. Upper surface fading to: Close to 11D, iridescent.

*Spur.*—Length: About 5.5 to 6.5 cm. Shape: Narrow and curved. Color: 145C.

*Peduncles.*—Length: About 4 to 5 cm. Angle: About 45° to the lateral branch. Strength: Strong. Color: 145C.

*Reproductive organs.*—Androecium: Stamen number: Five, anthers fused, filaments free. Anther shape: Obovate. Pollen amount: Moderate. Pollen color: 4C. Gynoecium: Five-loculate fused. Ovary color: 144A.

Disease resistance: Resistance to pathogens common to *Impatiens* has not been observed.

Seed development: Seed production has not been observed.

CHART A

CHARACTERISTIC	'BALCEBFRO'	'MOOREA'
PLANT HEIGHT	About 13 to 14 cm	About 13 to 14 cm
PLANT WIDTH	About 16 to 19 cm	About 19 to 24 cm
NUMBER OF LATERAL BRANCHES	About 6 to 8	About 4 to 6
LATERAL BRANCH LENGTH	About 11 to 13 cm	About 8 to 9 cm
LATERAL BRANCH DIAMETER	About 7 to 8 mm	About 8 to 9 mm
INTERNODE LENGTH	About 3 to 4 cm	About 2 to 3 cm
LEAF LENGTH	About 6 to 8 cm	About 7 to 9 cm
LEAF WIDTH	About 2 to 3 cm	About 3 to 4 cm
LEAF COLOR, UPPER SURFACE	147A	137A
LEAF COLOR, LOWER SURFACE	147B	146B
QUANTITY OF FLOWERS AND BUDS PER LATERAL STEM	About 8 to 9	About 6 to 7
FLOWER DIAMETER	About 6 to 6.5 cm	About 6.5 to 7.5 cm
PEDUNCLE COLOR	145C	144B

It is claimed:

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

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