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Dümmen

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(54) **NEW GUINEA IMPATIENS PLANT NAMED**
‘DUEMAGBU’

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

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 108 days.

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

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(57) **ABSTRACT**

A new and distinct cultivar of *Impatiens* plant named ‘Duemagbu’ characterized by its upright and outwardly spreading growth habit; mounded plant habit; freely branching habit; relatively vigorous growth habit; dark green-colored leaves; freely and early flowering habit; large red purple-colored flowers; and good garden performance.

1 Drawing Sheet

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Botanical designation: *Impatiens hawkeri*.
Cultivar denomination: ‘DUEMAGBU’.

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 ‘Duemagbu’.

The new *Impatiens* plant is a product of a planned breeding program conducted by the Inventor in Rheinberg, Germany. The objective of the breeding program is to create new vigorous and uniform New Guinea *Impatiens* plants with large and attractive flowers.

The new *Impatiens* plant originated from a cross-pollination made by the Inventor in July, 2002 in Rheinberg, Germany of a proprietary selection of *Impatiens hawkeri* identified as code number F-19-193, not patented, as the female, or seed, parent with a proprietary selection of *Impatiens hawkeri* identified as code number N00-0151-018, not patented, as the male, or pollen, parent. The new *Impatiens* plant was discovered and selected by the Inventor as a single flowering plant from within the progeny of the stated cross-pollination in a controlled greenhouse environment in Rheinberg, Germany in May, 2010.

Asexual reproduction of the new *Impatiens* plant by terminal cuttings in a controlled greenhouse environment in Rheinberg, Germany since June, 2010 has shown that the unique features of this new *Impatiens* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Impatiens* have not been observed under all possible environmental conditions and cultural practices. The phenotype may vary somewhat with variations in environmental conditions such as temperature, daylight and light intensity without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of ‘Duemagbu’.

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These characteristics in combination distinguish ‘Duemagbu’ as a new and distinct *Impatiens* plant:

1. Upright and outwardly spreading growth habit; mounded plant habit.
2. Freely branching habit.
3. Relatively vigorous growth habit.
4. Dark green-colored leaves.
5. Freely and early flowering habit.
6. Large red purple-colored flowers.
7. Good garden performance.

Plants of the new *Impatiens* can be compared to plants of the female parent selection. Plants of the new *Impatiens* differ primarily from plants of the female parent selection in the following characteristics:

1. Plants of the new *Impatiens* are more freely branching than plants of the female parent selection.
2. Plants of the new *Impatiens* and the female parent selection differ in flower color.

Plants of the new *Impatiens* can be compared to plants of the male parent selection. Plants of the new *Impatiens* differ primarily from plants of the male parent selection in the following characteristics:

1. Plants of the new *Impatiens* have larger flowers than plants of the male parent selection.
2. Plants of the new *Impatiens* and the male parent selection differ in flower color.

Plants of the new *Impatiens* can be compared to plants of New Guinea *Impatiens* ‘Kilogia’, disclosed in U.S. Plant Pat. No. 11,935. In side-by-side comparisons conducted in Rheinberg, Germany, plants of the new *Impatiens* differed primarily from plants of ‘Kilogia’ in the following characteristics:

1. Plants of the new *Impatiens* were more vigorous than plants of ‘Kilogia’.
2. Plants of the new *Impatiens* had thicker lateral branches and longer internodes than plants of ‘Kilogia’.
3. Plants of the new *Impatiens* had larger leaves than plants of ‘Kilogia’.
4. Plants of the new *Impatiens* had larger flowers than plants of ‘Kilogia’.

5. Flowers of plants of the new *Impatiens* were lighter in color than flowers of plants of 'Kilogia'.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new *Impatiens* plant 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* plant.

The photograph comprises a side perspective view of a typical flowering plant of 'Duemagbu' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations, measurements and values describe plants grown in 10.5-cm containers during the summer in a glass-covered greenhouse in Rheinberg, Germany and under cultural practices typically used in commercial New Guinea *Impatiens* production. During the production of the plants, night temperatures averaged 18° C. and light levels averaged 4,500 lux. Plants were pinched one time about three weeks after planting and were 16 weeks old when the photograph and description were taken. 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* 'Duemagbu'.
Parentage:

Female, or seed, parent.—Proprietary selection of *Impatiens hawkeri* identified as code number F-19-193, not patented.

Male, or pollen, parent.—Proprietary selection of *Impatiens hawkeri* identified as code number N00-0151-018, not patented.

Propagation:

Type.—By terminal cuttings.

Time to initiate roots, summer.—About five days at temperatures of about 20° C.

Time to initiate roots, winter.—About seven days at temperatures of about 20° C.

Time to produce a rooted young plant, summer.—About three weeks at temperatures of about 20° C.

Time to produce a rooted young plant, winter.—About four weeks at temperatures of about 20° C.

Root description.—Fine, fibrous; white in color.

Rooting habit.—Freely branching; dense.

Plant description:

Plant and growth habit.—Upright to outwardly spreading growth habit; mounded plant habit; freely branching habit with about seven lateral branches; relatively vigorous growth habit.

Plant height.—About 15 cm.

Plant diameter.—About 17 cm.

Lateral branch description:

Length.—About 14 cm.

Diameter.—About 7 mm.

Internode length.—About 4 cm.

Strength.—Strong.

Aspect.—Initially upright to outwardly spreading.

Texture.—Smooth, glabrous.

Color.—Close to 183B.

Foliage description:

Arrangement.—Opposite or in whorls; simple.

Length.—About 11.4 cm.

Width.—About 4.6 cm.

Shape.—Ovate.

Apex.—Apiculate.

Base.—Obtuse.

Margin.—Serrulate with ciliation.

Texture, upper and lower surfaces.—Smooth, glabrous; leathery.

Venation pattern.—Pinnate; arcuate.

Color.—Developing and fully expanded leaves, upper surface: Close to 139A; midvein, close to 59A; lateral venation, close to 139A. Developing and fully expanded leaves, lower surface: Close to 59A; venation, close to 59A.

Petiole length.—About 3 cm.

Petiole diameter.—About 3.5 mm.

Petiole texture, upper and lower surfaces.—Smooth, glabrous.

Petiole color, upper and lower surfaces.—Close to 59A.

Flower description:

Flower type and flowering habit.—Single rounded and flat axillary flowers; freely flowering habit, typically about seven open flowers and flower buds per lateral branch; flowers positioned above and beyond the foliar plane, flowers typically face upright or outwardly.

Flower longevity.—Flowers typically last about five to six days under greenhouse conditions; petals self-cleaning, gynoecium persistent.

Fragrance.—None detected.

Natural flowering season.—Year-round under greenhouse conditions; in the garden, flowering from spring until fall in Germany; early flowering habit, plants typically begin flowering about eight weeks after planting.

Flower buds.—Length: About 1.6 cm. Diameter: About 1 cm. Shape: Ovate. Color: Close to 60B and 59B.

Flower size.—Length: About 7 cm. Diameter: About 7.5 cm. Depth: About 2.5 cm.

Petals.—Quantity and arrangement: Five per flower in a single whorl. Length: About 3.6 cm. Width: About 3.7 cm. Shape: Obovate. Apex: Emarginate; rounded. Base: Acute. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; satiny. Color: When opening and fully opened, upper surface: Close to 74A; with development, color becomes closer to 78B. When opening and fully opened, lower surface: Close to 74B.

Sepals.—Quantity and arrangement: Three in a single whorl; one modified into an elongated spur. Length: About 1 cm. Width: About 5 mm. Shape: Oval. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: Close to 147A. Spur length: About 5 cm. Spur diameter: At flower, about 3 mm; at apex, less than 1 mm. Spur texture: Smooth, glabrous. Spur color: Close to 60A.

Peduncles.—Length: About 5 cm. Diameter: About 2 mm. Angle: Upright to outward. Strength: Moderately strong; flexible. Texture: Smooth, glabrous. Color: Close to 146C.

Reproductive organs.—Stamens: Quantity: Five fused at anthers; filaments free. Anther length: About 7 mm. Anther shape: Oval. Anther color: Close to 62B and

61B. Pollen amount: Abundant. Pollen color: Close to 11C. Pistils: Quantity per flower: One. Pistil length: About 7 mm. Stigma shape: Crested. Stigma color: Close to 60A. Style color: Close to 60B. Ovary color: Close to 59A.

Seeds and fruits.—Seed and fruit production has not been observed on plants of the new *Impatiens*.

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

Garden performance: Plants of the new *Impatiens* have been observed to have good garden performance and tolerate temperatures ranging from about 5° C. to about 40° C.

It is claimed:

1. A new and distinct *Impatiens* plant named 'Duemagbu' as illustrated and described.

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