



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

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

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

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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 0 days.

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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
'Dongimagpuwhi' characterized by its upright to outwardly
spreading and uniformly mounding plant habit; moderately
vigorous growth habit; freely branching habit; glossy and
dark green to dark greyed green-colored leaves; freely
flowering habit; large flowers with cordate-shaped petals
that are bright white in color; and good garden performance.

2 Drawing Sheets

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Botanical designation: *Impatiens hawkeri*.

Cultivar denomination: 'DONGIMAGPUWHI'. CROSS-
REFERENCE TO A RELATED APPLICATION AND
STATEMENT REGARDING PRIOR DISCLOSURES BY
THE INVENTOR AND APPLICANT

This application claims priority to a European Commu-
nity Plant Breeders' Rights application filed on Nov. 14,
2019, application number 2019/2987. There have been no
offers for sale anywhere in the world prior to the effective
filing date of this Application and no accessibility to one of
ordinary skill in the art could have been derived from the
printed Plant Breeder's Rights documents.

The Inventor and Applicant assert that no publications nor
advertisements relating to sales, offers for sale or public
distribution occurred more than one year prior to the effec-
tive filing date of this application. Any information about the
claimed plant would have been obtained from a direct or
indirect disclosure from the Inventor and/or the Applicant.
Inventor and Applicant claim a prior art exemption under 35
U.S.C. 102(b)(1) for disclosure and/or sales prior to the
filing date but less than one year prior to the effective filing
date.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of New Guinea *Impatiens* plant, botanically known as *Impa-
tiens hawkeri* and hereinafter referred to by the name
'Dongimagpuwhi'.

The new *Impatiens* plant is a product of a planned
breeding program conducted by the Inventor in Koka, Ethio-
pia and Encinitas, Calif. The objective of the breeding
program is to create new early and freely flowering New
Guinea *Impatiens* plants with large attractive flowers and
good garden performance.

The new *Impatiens* plant originated from a cross-pollina-
tion made by the Inventor in November, 2015 in Koka,

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Ethiopia of a proprietary selection of *Impatiens hawkeri*
identified as code number NN-0490, not patented, as the
female, or seed, parent with a proprietary selection of
Impatiens hawkeri identified as code number NN13-
006328-004, as the male, or pollen, parent. The new *Impa-
tiens* 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
Encinitas, Calif. in April, 2016.

Asexual reproduction of the new *Impatiens* plant by
terminal vegetative cuttings in a controlled greenhouse
environment in Rheinberg, Germany since June, 2016 has
shown that the unique features of this new *Impatiens* plant
are stable and reproduced true to type in successive genera-
tions.

SUMMARY OF THE INVENTION

Plants of the new *Impatiens* have not been observed under
all possible combinations of 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
'Dongimagpuwhi'. These characteristics in combination dis-
tinguish 'Dongimagpuwhi' as a new and distinct *Impatiens*
plant:

1. Upright to outwardly spreading and uniformly mound-
ing plant habit.
2. Moderately vigorous growth habit.
3. Freely branching habit.
4. Glossy and dark green to dark greyed green-colored
leaves.
5. Freely flowering habit.

6. Large flowers with cordate-shaped petals that are bright white in color.

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* have larger flowers than plants of the female parent selection.

2. Flowers of plants of the new *Impatiens* are brighter white in color than flowers of plants of the female parent selection.

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* flower earlier than plants of the male parent selection.

2. Plants of the new *Impatiens* have larger flowers than plants of the male parent selection.

3. Flowers of plants of the new *Impatiens* are brighter white in color than flowers of plants of the male parent selection.

Plants of the new *Impatiens* can be compared to plants of *Impatiens hawkeri* 'Moorea', disclosed in U.S. Plant Pat. No. 9,147. In side-by-side comparisons, plants of the new *Impatiens* differ primarily from plants of 'Moorea' in the following characteristics:

1. Plants of the new *Impatiens* are more vigorous than and not as compact as plants of 'Moorea'.

2. Plants of the new *Impatiens* have larger flowers than plants of 'Moorea'.

3. Flowers of plants of the new *Impatiens* are brighter white in color than flowers of plants of 'Moorea'.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate 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 photographs 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 on the first sheet (FIG. 1 of 2) is a side perspective view of a typical flowering plant of 'Dongimagpuwhi' grown in a container.

The photograph on the second sheet (FIG. 2 of 2) is a close-up view of a typical flowering plant of 'Dongimagpuwhi'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations, measurements and values describe plants grown during the summer and early autumn in 16.5-cm containers in a polyethylene-covered greenhouse in Encinitas, Calif. and under cultural practices typical of commercial New Guinea *Impatiens* production. During the production of the plants, day temperatures averaged 26° C., night temperatures averaged 18° C. and light levels ranged from 4,500 to 5,500 lux. Plants were 18 weeks old when the photographs and description were taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2017 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Impatiens hawkeri* 'Dongimagpuwhi'.

Parentage:

Female, or seed, parent.—Proprietary selection of *Impatiens hawkeri* identified as code number NN-0490, not patented.

Male, or pollen, parent.—Proprietary selection of *Impatiens hawkeri* identified as code number NN13-006328-004, not patented.

Propagation:

Type.—By terminal vegetative cuttings.

Time to initiate roots, summer and winter.—About five to seven days at day temperatures about 27° C. and night temperatures about 20° C.

Time to produce a rooted young plant, summer and winter.—About three weeks at day temperatures about 27° C. and night temperatures about 20° C.

Root description.—Fine, fibrous; typically white in color, actual color of the roots is dependent on substrate composition, water quality, fertilizers, substrate temperature and age of roots.

Rooting habit.—Freely branching; dense.

Plant description:

Plant and growth habit.—Upright to outwardly spreading and uniformly mounding plant habit; broad inverted triangle in overall shape; freely branching habit; bushy and dense appearance; moderately vigorous growth habit and moderate to rapid growth rate.

Plant height.—About 28.5 cm.

Plant diameter.—About 57 cm.

Lateral branch description:

Branching habit.—Freely branching with about eight to nine primary lateral branches each with multiple secondary branches.

Length.—About 27 cm.

Diameter.—About 1.4 cm.

Internode length.—About 5.75 cm.

Strength.—Strong, flexible.

Aspect.—Initially upright to outwardly spreading.

Texture and luster.—Smooth, glabrous; glossy.

Color, developing and developed.—Close to 144A.

Leaf description:

Arrangement.—Typically in whorls or opposite; simple.

Length.—About 14 cm.

Width.—About 5.25 cm.

Shape.—Elliptic to narrowly ovate.

Apex.—Acuminate.

Base.—Cuneate to attenuate.

Margin.—Serrate with ciliation.

Texture and luster, upper surface.—Smooth, glabrous; coriaceous; glossy.

Texture and luster, lower surface.—Smooth, glabrous; coriaceous; moderately glossy.

Venation pattern.—Pinnate; arcuate.

Color.—Developing leaves, upper surface: More green than NN137A. Developing leaves, lower surface: Close to 147B. Fully expanded leaves, upper surface: Darker green than N189A; midvein, proximally, close to 145B to 145C and distally, close to 144A; lateral venation, close to 147A and N189A. Fully expanded leaves, lower surface: Close to 147B;

midvein, proximally, close to 145C and distally, close to 145A to 145B; lateral venation, close to 145A.

Petiole length.—About 3.75 cm.

Petiole diameter.—About 5 mm.

Petiole texture and luster, upper and lower surfaces.—Smooth, glabrous; glossy.

Petiole color, upper and lower surfaces.—Close to 145A to 145B.

Flower description:

Flower type and flowering habit.—Large single axillary flowers that are rounded in shape; freely flowering habit, typically about three to four fully opened flowers and three to four flower buds per lateral branch; flowers are flat and positioned above and beyond the foliar plane, flowers typically face mostly upright.

Flower longevity.—Flowers typically last about four to seven days on the plant 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 California; early flowering habit, plants typically begin flowering about twelve weeks from unrooted cuttings.

Flower buds.—Length: About 1.5 cm. Diameter: About 1 cm. Shape: Ovoid. Texture and luster: Smooth, glabrous; somewhat glossy. Color: Close to 144A and NN155D.

Flower diameter.—Large, about 7 cm by 6.75 cm.

Flower depth.—About 1 cm.

Petals.—Quantity and arrangement: Five per flower in a single whorl with one banner petal, two lateral petals and two lower petals. Length, banner petal: About 3 cm. Length, lateral petals: About 3.5 cm. Length, lower petals: About 3.75 cm. Width, banner petal: About 4.8 cm. Width, lateral petals: About 3.5 cm. Width, lower petals: About 3.75 cm. Shape, all petals: Cordate. Apex, all petals: Cordate. Base, all petals: Cuneate. Margin, all petals: Entire, not undulate. Texture and luster, all petals, upper surface: Smooth, glabrous; velvety; slightly glossy; iridescent. Texture and luster, all petals, lower surface: Smooth, glabrous; slightly glossy. Color, all petals: When opening and fully opened, upper surface: Brighter than NN155D; color does not change with development. When opening and fully opened, lower

surface: Close to NN155D; on banner petal, midvein, close to 144A; color does not change with development.

Sepals.—Quantity and arrangement: Three in a single whorl; two laterals are opposite and the third modified into an elongated spur. Lateral sepal length: About 1.2 cm. Lateral sepal width: About 5 mm. Lateral sepal shape: Narrowly ovate. Lateral sepal apex: Acute to acuminate. Lateral sepal base: Truncate. Lateral sepal margin: Entire, not undulate. Lateral sepal texture and luster, upper and lower surfaces: Smooth, glabrous; moderately glossy. Lateral sepal color, upper surface: Close to 145C. Lateral sepal color, lower surface: Close to 144A to 144B, distally tinged with close to 145B to 145C. Spur length: About 5 cm. Spur diameter: At flower, about 2 mm; at apex, less than 1 mm. Spur shape: Acicular, curved. Spur texture and luster: Smooth, glabrous; moderately glossy. Spur color: Close to 145B to 145C.

Peduncles.—Length: About 3.75 cm. Diameter: About 2.5 mm. Angle: About 45° from vertical. Strength: Strong; flexible. Texture and luster: Smooth, glabrous; glossy. Color: Close to 144A.

Reproductive organs.—Stamens: Quantity: Five fused at anthers; filaments free. Filament length: About 3.5 mm. Filament color: Close to 158A. Anther length: About 3.25 mm. Anther shape: Oblong. Anther color: Close to NN155B. Pollen amount: Moderate. Pollen color: Close to 158A. Pistils: Quantity per flower: One. Pistil length: About 4 mm. Stigma shape: Crested. Stigma color: Close to 144A. Style length: About 3 mm. Style color: Close to 144A. Ovary color: Close to 144A.

Seeds and fruits.—To date, seed and fruit production has not been observed on plants of the new *Impatiens*.

Pathogen & pest resistance: To date, plants of the new *Impatiens* have not been observed to be resistant to pathogens and pests common to *Impatiens* plants.

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 'Dongimagpuwhi' as illustrated and described.

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FIG. 1



FIG. 2

