



US00PP30690P2

(12) **United States Plant Patent**
Koot et al.

(10) **Patent No.:** **US PP30,690 P2**

(45) **Date of Patent:** **Jul. 9, 2019**

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

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

(71) Applicant: **DUMMEN GROUP B.V.**, De Lier
(NL)

(72) Inventors: **Arjan Koot**, Oeffelt (NL); **Ruth
Kobayashi**, Carlsbad, CA (US)

(73) Assignee: **Dümmen Group B.V.**, De Lier (NL)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **15/932,836**

(22) Filed: **May 1, 2018**

(51) **Int. Cl.**
A01H 5/02 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./318.7**
CPC **A01H 5/02** (2013.01)

(58) **Field of Classification Search**
USPC **Plt./318.7**
CPC **A01H 5/0261**
See application file for complete search history.

Primary Examiner — Kent L Bell

(74) *Attorney, Agent, or Firm* — C. A. Whealy

(57) **ABSTRACT**

A new and distinct cultivar of *Impatiens* plant named
'Doimmagre' characterized by its upright, outwardly spread-
ing and mounding plant habit; vigorous growth habit; freely
branching habit; dark green-colored leaves; freely and early
flowering habit; relatively large red-colored flowers; and
good garden performance.

1 Drawing Sheet

1

Botanical designation: *Impatiens hawkeri*.
Cultivar denomination: 'DOIMMAGRE'.

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 'Doim-
magre'.

The new *Impatiens* plant is a product of a planned
breeding program conducted by the Inventors in Koka,
Ethiopia and Rheinberg, Germany. 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 Inventors in November, 2012 in Koka,
Ethiopia of *Impatiens hawkeri* 'Fidimpmxred', disclosed in
U.S. Plant Pat. No. 25,119, as the female, or seed, parent
with a proprietary selection of *Impatiens hawkeri* identified
as code number NN04-008130-001, not patented, as the
male, or pollen, parent. The new *Impatiens* plant was
discovered and selected by the Inventors as a single flow-
ering plant from within the progeny of the stated cross-
pollination in a controlled greenhouse environment in Rhein-
berg, Germany in April, 2013.

Asexual reproduction of the new *Impatiens* plant by
terminal vegetative cuttings in a controlled greenhouse
environment in Rheinberg, Germany since June, 2013 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

2

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 'Doim-
magre'. These characteristics in combination distinguish
'Doimmagre' as a new and distinct *Impatiens* plant:

1. Upright, outwardly spreading and mounding plant habit.
2. Vigorous growth habit.
3. Freely branching habit.
4. Dark green-colored leaves.
5. Freely and early flowering habit.
6. Relatively large intense red-colored flowers.
7. Good garden performance.

Plants of the new *Impatiens* can be compared to plants of
the female parent, 'Fidimpmxred'. Plants of the new *Impa-
tiens* differ primarily from plants of 'Fidimpmxred' in the
following characteristics:

1. Plants of the new *Impatiens* are more upright than and
not as broad as plants of 'Fidimpmxred'.
2. Plants of the new *Impatiens* flower earlier than plants
of 'Fidimpmxred'.
3. Plants of the new *Impatiens* have larger flowers than
plants of 'Fidimpmxred'.

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. Plants of the new *Impatiens* and the male parent
selection differ in flower color as plants of the male
parent selection have dark red-colored flowers with
blue undertones.

Plants of the new *Impatiens* can be compared to plants of *Impatiens hawkeri* 'Tamar Dark Red', disclosed in U.S. Plant Pat. No. 19,423. In side-by-side comparisons, plants of the new *Impatiens* differ primarily from plants of 'Tamar Dark Red' in the following characteristics:

1. Plants of the new *Impatiens* flower earlier than plants of 'Tamar Dark Red'.
2. Plants of the new *Impatiens* have larger flowers than plants of 'Tamar Dark Red'.
3. Plants of the new *Impatiens* and 'Tamar Dark Red' differ in flower color as plants of 'Tamar Dark Red' have darker red-colored flowers.

Plants of the new *Impatiens* can also be compared to plants of *Impatiens hawkeri* 'Duemagpin', disclosed in U.S. Plant Pat. No. 25,035. In side-by-side comparisons, plants of the new *Impatiens* differ primarily from plants of 'Duemagpin' in the following characteristics:

1. Leaves of plants of the new *Impatiens* and 'Duemagpin' differ in lower surface color as lower surfaces of leaves of plants of 'Duemagpin' are red purple in color.
2. Plants of the new *Impatiens* and 'Duemagpin' differ in flower color as plants of 'Duemagpin' have soft pink-colored flowers.

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 at the bottom of the sheet comprises a side perspective view of a typical flowering plant of 'Doimmagre' grown in a container.

The photograph at the top of the sheet is a close-up view of a typical flowering plant of 'Doimmagre'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations, measurements and values describe plants grown during the winter 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 25 weeks old when the photographs and description were taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2007 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Impatiens hawkeri* 'Doimmagre'.
Parentage:

Female, or seed, parent.—*Impatiens hawkeri* 'Fidimpmaxred', disclosed in U.S. Plant Pat. No. 25,119.

Male, or pollen, parent.—Proprietary selection of *Impatiens hawkeri* identified as code number NN04-008130-001, not patented.

Propagation:

Type.—By terminal vegetative cuttings.

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

Time to produce a rooted young plant, summer and winter.—About three to four weeks at 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 mounding plant habit; freely branching habit with about ten primary lateral branches each with about four secondary lateral branches developing per plant; vigorous growth habit and moderate to rapid growth rate.

Height, soil level to top of foliar plane.—About 28 cm.

Height, soil level to top of floral plane.—About 29 cm.

Plant diameter or spread.—About 54 cm.

Lateral branch description:

Length.—About 24 cm.

Diameter, primary lateral branches.—About 1.2 cm.

Diameter, secondary lateral branches.—About 8 mm.

Internode length.—About 5.5 cm.

Strength.—Strong.

Aspect.—About 15° to 45° from vertical.

Texture and luster.—Smooth, glabrous; glossy.

Color, when developing.—Close to 183A.

Color, fully developed.—Close to 187A.

Leaf description:

Arrangement.—Opposite or in whorls of four or five leaves; simple.

Length.—About 12.7 cm.

Width.—About 4.4 cm.

Shape.—Elliptical.

Apex.—Acuminate.

Base.—Attenuate.

Margin.—Entire with ciliation.

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

Texture and luster, lower surface.—Smooth, glabrous; matte.

Venation pattern.—Pinnate; arcuate.

Color.—Developing leaves, upper and lower surfaces:

Close to 146B. Fully expanded leaves, upper surface:

Slightly darker than 147A; venation, close to 183B.

Fully expanded leaves, lower surface: Close to 147B; venation, close to 183C.

Petioles.—Length: About 4.5 cm. Diameter: About 3 mm. Strength: Strong. Texture, upper and lower surfaces: Smooth, glabrous; matte. Color, upper and lower surfaces: Close to 183C.

Flower description:

Flower type and flowering habit.—Relatively large single rounded axillary flowers; freely flowering habit, typically about 175 flowers developing per plant; flowers positioned above and beyond the foliar plane; flowers typically face mostly upright to outwardly.

Flower longevity.—Flowers typically last about two to three 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 continuous from spring until fall in California; early flow-

ering habit, plants typically begin flowering about twelve weeks after planting.

Flower buds.—Length: About 2.5 cm. Diameter: About 2 cm. Shape: Ovate. Texture and luster: Smooth, glabrous; slightly glossy. Color: Close to 45A. 5

Flower diameter.—About 7 cm.

Flower depth.—About 1.8 cm; with spur, about 4.2 cm.

Petals.—Quantity and arrangement: Five per flower in a single whorl. Banner petals, length: About 3.2 cm. Banner petals, width: About 5.8 cm. Lateral petals, length: About 3.6 cm. Lateral petals, width: About 3.7 cm. Lower petals, length: About 3.5 cm. Lower petals, width: About 4 cm. Shape: Cordate. Apex: Emarginate. Base: Attenuate. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; velvety; matte. Color: When opening, upper surface: Close to 46A. When opening, lower surface: Close to 44A. Fully opened, upper surface: Close to 45A; towards the base, close to 46A; venation, close to 45A; color does not fade with development. Fully opened, lower surface: Close to 44A; venation, close to 44A; color does not fade with development. 10 15 20

Sepals.—Quantity and arrangement: Three in a single whorl; two lateral sepals and one center sepal modified into an elongated spur. Lateral sepals, length: About 1.4 cm. Lateral sepals, width: About 6 mm. Center sepals, length: About 2 cm. Center sepals, width: About 1.4 cm. Shape: Elliptical. Apex: Acuminate. Base, lateral sepals: Truncate. Base, center sepal: Modified into a curved spur, fused into a slender tube. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; moderately glossy. Color: When opening, upper surface: Close to N170C. When opening, lower surface: 25 30 35

Close to 183A. Fully opened, upper surface: Close to 185D; towards the apex, close to 45D. Fully opened, lower surface: Close to 45D. Spur length: About 5.5 cm. Spur diameter: At the flower, about 3 mm. Spur texture and luster: Smooth, glabrous; moderately glossy. Spur color: Close to 53A.

Peduncles.—Length: About 4.8 cm. Diameter: About 2 mm. Angle: About 45° to 55° from branch axis. Strength: Strong. Texture and luster: Smooth, glabrous; slightly glossy. Color: Close to 185A.

Reproductive organs.—Stamens: Quantity: Five fused at anthers; filaments free. Filament length: About 3 mm. Filament color: Close to 46A. Anther size: About 3 mm by 5 mm. Anther shape: Oblong. Anther color: Close to 161C. Pollen amount: Moderate. Pollen color: Close to 158C. Pistils: Quantity per flower: One. Pistil length: About 8 mm. Stigma diameter: About 1.5 mm. Stigma shape: Rounded. Stigma color: Close to 145B. Style length: About 1 mm. Style color: Close to 145B. Ovary color: Close to 146A tinted with close to 187C.

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

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 to date. 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 ‘Doim-magre’ as illustrated and described.

* * * * *

