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**Kawashima et al.**

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(54) **NEW GUINEA *IMPATIENS* PLANT NAMED**  
**'SAKIMP006'**

(51) **Int. Cl.**  
**A01H 5/00** (2006.01)

(50) Latin Name: ***Impatiens*×*hybrida***  
Varietal Denomination: **SAKIP006**

(52) **U.S. Cl.** ..... **Plt./318.6**

(58) **Field of Classification Search** ..... **Plt./318.6**  
See application file for complete search history.

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patent is extended or adjusted under 35  
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(57) **ABSTRACT**

A New Guinea *Impatiens* cultivar particularly distinguished  
by having large lavender flowers, a mounding plant habit,  
and vigorous rooting is disclosed.

(21) Appl. No.: **11/895,983**

(22) Filed: **Aug. 28, 2007**

**1 Drawing Sheet**

**1**

**2**

Genus and species: *Impatiens*×*hybrida*.  
Variety denomination: 'SAKIMP006'.

3. Mounding plant habit; and  
4. Vigorous rooting.

**BACKGROUND OF THE NEW PLANT**

**DESCRIPTION OF PHOTOGRAPHS**

The present invention comprises a new and distinct culti-  
var of New Guinea *Impatiens*, botanically known as  
*Impatiens*×*hybrida*, and hereinafter referred to the cultivar  
name 'SAKIMP006'. 'SAKIMP006' originated from an  
interspecific hybridization between 'NG-02WM1', an  
unpatented proprietary deep orange-flowered *Impatiens*  
plant and 'NG-01H-9A', an unpatented proprietary red-  
orange flowered *Impatiens* plant, in Misato, Japan.

This new *Impatiens* plant is illustrated by the accompany-  
ing photographs which show overall plant habit including  
blooms, buds, and foliage of the plant; the colors shown are  
as true as can be reasonably obtained by conventional photo-  
graphic procedures.

FIG. 1 The photograph shows overall plant habit includ-  
ing blooms, buds and foliage.

FIG. 2 The photograph shows the mature inflorescence.

In April 2002, the female parent line 'NG-02WM1' and  
male parent line 'NG-01H-9A' were crossed and population  
of F<sub>1</sub> plants was created. The F<sub>1</sub> plants were evaluated in  
Misato, Japan in an open field trial. The criteria for plant  
selection included vigorous rooting, lavender flower color  
and large flower petal size. At the completion of the trial, one  
single-plant selection was made based on the above criteria  
and vegetatively propagated. From May to August 2004, the  
selection was evaluated in an open field in Misato, Japan.  
The selection was also evaluated in an open field trial during  
the summer of 2004 in Athens, Ga., USA. Shoot-tip cuttings  
of the variety were then shipped to Salinas, Calif., where the  
plants were regenerated and reevaluated for stability of  
traits. The selection subsequently was named 'SAKIMP006'  
and found to have its unique characteristics reproduce true to  
type in successive generations of asexual propagation. The  
instant plant was asexual reproduced by vegetative cutting in  
Salinas, Calif.

**DETAILED DESCRIPTION OF THE NEW  
CULTIVAR**

The following detailed descriptions set forth the distinc-  
tive characteristics of 'SAKIMP006'. The data which define  
these characteristics were collected from asexual reproduc-  
tions carried out in Salinas, Calif. The plant history was  
taken on plants grown for about four months from propaga-  
tion by terminal cuttings under greenhouse conditions. Color  
references are primarily to the R.H.S. Colour Chart of The  
Royal Horticultural Society of London, (R.H.S.), 4<sup>th</sup> edition  
(2001). Anatomic labels are from The Cambridge Illustrated  
Glossary of Botanical Terms, by M. Hickey and C. King,  
Cambridge University Press.

Plant Breeder's Rights for this cultivar were applied for in  
Canada on Mar. 28, 2007.

**DETAILED BOTANICAL DESCRIPTION**

**SUMMARY OF THE INVENTION**

The following are the most outstanding and distinguishing  
characteristics of this new cultivar when grown under nor-  
mal horticultural practices in Salinas, Calif.

1. Lavender flowers;
2. Large flower petal size;

**Classification:**

*Family*.—Balsaminaceae.

*Botanical*.—*Impatiens*×*hybrida*.

*Common name*.—*Impatiens*.

**Parentage:**

*Female parent*.—'NG-02WM1', an unpatented propri-  
etary deep-orange flowered *Impatiens* plant.

*Male parent*.—'NG-01H-9A', an unpatented propri-  
etary red-orange flowered *Impatiens* plant.

## Growth:

*Time to produce a rooted cutting.*—The terminal 1.0 to 1.5 inches of an actively growing stem was excised. The vegetative cuttings were propagated in five to six weeks. The base of the cuttings were dipped for 1 to 2 seconds in a 1:9 solution of Dip 'N Grow (1 solution: 9 water) root inducing solution immediately prior to sticking into the cell trays. Cuttings were stuck into plastic cell trays having 98 cells, and containing a moistened peat moss-based growing medium. The cuttings were misted with water from overhead for 10 seconds every 30 minutes until sufficient roots were formed.

*Environmental conditions for plant growth.*—Rooted cuttings were transplanted and grown in 6-inch plastic pots in a glass greenhouse located in Salinas, Calif. Pots contained a peat moss-based growing medium. Soluble fertilizer containing 20% nitrogen, 10% phosphorus and 20% potassium was applied once a day or every other day by overhead irrigation. Plants were fertilized every 2–3 days, 2 times in consecutive applications and then given one clear water application. Pots were top-dressed with a dry, slow release fertilizer containing 14% nitrogen, 14% phosphorus and 14% potassium. The typical average air temperature was 24° C.

*Time to bloom from propagation.*—6 to 8 weeks.

## Plant description:

*Habit.*—Mounding.

*Height.*—28.0 cm to 30.0 cm from soil line to top of foliage.

*Spread.*—48.0 cm to 50.0 cm.

*Time to produce a finished flowering plant.*—6 to 8 weeks.

*Time to produce a rooted cutting.*—4 weeks.

*Flowering requirements.*—Will flower so long as temperature is above 5° C.

*Temperature tolerance.*—Plants have been observed to continuously flower at a temperature range of 5° C.–36° C.

## Branches:

*Number.*—12 total with 4 main branches.

*Length.*—6.0 cm from soil line to first node: 20.0 cm to 25.0 cm total.

*Diameter (main branch).*—2.0 cm.

*Color.*—RHS 187B (Greyed-Purple).

## Stems:

*Length.*—7.0 cm from first to second node.

*Diameter.*—0.8 cm to 1.0 cm.

*Internode length.*—5.0 cm to 7.0 cm.

*Color.*—RHS 187B (Greyed-Purple).

*Stem description.*—Strong; circular cross-section, smooth and shiny.

*Pubescence.*—Absent.

*Anthocyanin color.*—RHS 185B (Greyed-Purple).

*Peduncles.*—Length: 4.0 cm. Diameter: 0.2 cm. Color: RHS 185D (Greyed-purple). Texture: Smooth, glabrous.

## Leaves:

*Arrangement.*—Whorled with up to 5 leaves per node, opposite if only two leaves at one node.

*Length.*—10.0 cm to 12.0 cm.

*Width.*—4.0 cm to 4.5 cm.

*Shape.*—Lanceolate, curled.

*Margin.*—Serrate.

*Apex.*—Acuminate.

*Base.*—Shortly attenuate.

*Color.*—Upper surface: RHS 139A (Green). Lower surface: RHS 191A (Greyed-green) with RHS 185A (Greyed-purple) splotches.

*Texture.*—Dull; waxy.

*Variation.*—Absent.

*Fragrance.*—Absent.

*Pubescence.*—Absent.

*Venation.*—Pinnate.

*Venation color.*—Upper surface: RHS 185C (Greyed-purple). Lower surface: RHS 185B (Greyed-purple).

*Petioles.*—Length: 0.5 cm to 1.0 cm. Diameter: 0.6 cm to 0.7 cm. Color: RHS 185C (Greyed-purple). Texture: Smooth, glabrous.

## Flower buds:

*Shape.*—Deltoid, longitudinal cross-section.

*Length.*—1.5 cm to 2.0 cm.

*Diameter.*—1.5 cm.

*Color.*—RHS N74C (Red-purple) with RHS 185B (Greyed-purple) at the edge.

*Texture.*—Glabrous.

## Inflorescence:

*Blooming habit.*—Will flower as long as the temperature is above 5° C.

*Inflorescence type.*—Single flower with spur.

*Number of flowers per node.*—1 to 3 in bloom at one time; about 10 to 12 flower buds.

*Number of flowers per plant.*—30 to 40.

*Lastingness of individual blooms on the plant.*—14 days.

*Fragrance.*—Absent.

## Corolla:

*Shape.*—Roughly circular with 5 radial petals.

*Diameter.*—6.5 cm.

*Depth.*—0.1 cm to 0.3 cm.

## Petals:

*Shape.*—Obovate.

*Length.*—2.5 cm to 3.0 cm.

*Width.*—3.8 cm to 4.0 cm.

*Apex.*—Emarginate (cleaved).

*Base.*—Attenuate.

*Margin.*—Entire.

*Pubescence.*—Glabrous.

*Color.*—Upper surface: RHS N74B (Red-purple).

Lower surface: RHS N74C (Red-purple) with RHS

N74A vein between petal lobes. Eye zone: RHS

N74A (Red-purple).

## Spur:

*Shape.*—Tubular and curved downward.

*Color.*—RHS 186D (Greyed-purple).

*Length.*—4.8 cm to 5.0 cm.

*Diameter.*—0.2 cm to 0.3 cm.

## Sepals:

*Shape.*—Lanceolate.

*Number.*—Two.

*Color.*—RHS 185D (Greyed-purple).

*Length.*—1.0 cm to 1.2 cm.

*Diameter.*—0.6 cm to 0.8 cm.

*Apex.*—Caudate.

*Base.*—Subcordate.

*Margin.*—Entire.

*Texture.*—Glabrous.

## Reproductive organs:

*Stamens.*—Form: Fused; spill into 4 lobes. Number: Many. Filament length: 0.4 cm. Filament color: RHS N74B (Red-purple). Anther length: 0.5 cm. Anther

color: RHS N155A (White). Pollen amount: Abundant. Pollen color: RHS N155A (White). Pollen description: Powdery.

*Pistil*.—Number: 5. Stigma color: RHS 139A (Green). Style color: RHS 139A (Green).

*Ovary arrangement*.—Parietal.

*Ovary surface color*.—RHS 1B (Green-yellow).

Fruit and seed set: No seed set observed.

Disease and insect resistance: No particular resistance or susceptibility has been observed.

#### COMPARISON WITH KNOWN CULTIVARS

‘SAKIMP006’ differs from the female parent, ‘NG-02WM1’, an unpatented *Impatiens* plant, in that ‘SAKIMP006’ has large, lavender flowers, while ‘NG-02WM1’ has medium, deep-orange flowers.

‘SAKIMP006’ differs from the male parent, ‘NG-01H-9A’, an unpatented proprietary *Impatiens* plant in that ‘SAKIMP006’ has lavender flowers, while ‘NG-01H-9A’ has red-orange flowers. Additionally, ‘SAKIMP006’ has a mounding growth habit, while ‘NG-01H-9A’ has an erect growth habit.

‘SAKIMP006’ is similar to the commercial *Impatiens* variety ‘Misato FG3’ (U.S. Plant Pat. No. 17,662) (known commercially as ‘SunPatiens Magenta’) however, there are differences as listed in the table below:

TABLE 1

Comparison of Characteristics between ‘SAKIMP006’ and ‘Misato FG3’		
Characteristic	‘SAKIMP006’	‘Misato FG3’
Flower diameter	6.5 cm	6.0 cm
Petal color, Upper surface	RHS N74B (Red-purple)	RHS N66A (Red-purple)
Petal size (length and diameter)	Length: 2.5 cm to 3.0 cm Diameter: 3.8 cm to 4.0 cm	Length: 2.4 cm to 3.0 cm Diameter: 2.5 cm to 3.5 cm

I claim:

1. A new and distinct cultivar of New Guinea *Impatiens* plant as shown and described herein.

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Fig. 1



Fig. 2