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**Kawashima et al.**

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(54) **NEW GUINEA IMPATIENS PLANT NAMED**  
**‘SAKIMP010’**

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

(50) Latin Name: *Impatiens*×*hybrida*  
Varietal Denomination: ‘SAKIMP010’

(52) **U.S. Cl.** ..... **Plt./318.2**

(58) **Field of Classification Search** ..... **Plt./318.2,**  
**Plt./318**

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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 white flowers with a very light pink tint, a strong  
root system and a vigorous and branching growth habit, is  
disclosed.

(21) Appl. No.: **12/011,590**

(22) Filed: **Jan. 28, 2008**

**1 Drawing Sheet**

**1**

**2**

Genus and species: *Impatiens*×*hybrida* (hort).  
Variety denomination: ‘SAKIMP010’.

DESCRIPTION OF THE PHOTOGRAPHS

BACKGROUND OF THE NEW PLANT

The present invention comprises a new and distinct culti-  
var of New Guinea *impatiens*, botanically known as  
*Impatiens*×*hybrida* (hort), and hereinafter referred to by the  
cultivar name ‘SAKIMP010’. ‘SAKIMP010’ originated  
from an interspecific hybridization occurring in Misato,  
Japan between the female parent, ‘NG-01WD’, an unpat-  
ented proprietary *Impatiens* breeding line with white flowers  
and the male parent, ‘EL-1A-2’, an unpatented proprietary  
*Impatiens* breeding line with lilac flowers.

This new *impatiens* plant is illustrated by the accompany-  
ing photographs which show overall plant habit including  
blossoms, buds, and foliage of the plant; the colors shown are  
as true as can be reasonably obtained by conventional photo-  
graphic procedures. The photographs are of plants that are 5  
months from their transplanting date and 6 months from the  
stick date.

FIG. 1 shows the overall plant habit including blossoms,  
buds and foliage.

FIG. 2 shows a close-up of the mature inflorescence.

In February 2002, the female parent line, ‘NG-01WD’,  
and male parent line, ‘EL-1A-2’, were crossed and a popula-  
tion 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 flower color, strong root system and a  
compact plant growth habit. At the completion of the trial,  
one single-plant selection was made based on the above cri-  
teria and vegetatively propagated. From May to August  
2005, the selection was evaluated in an open field in Misato,  
Japan. 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 ‘SAKIMP010’ and found to have its unique char-  
acteristics reproduce true to type in successive generations  
of asexual propagation.

DETAILED DESCRIPTION OF THE NEW  
CULTIVAR

The following detailed descriptions set forth the distinc-  
tive characteristics of ‘SAKIMP010’. 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 RHS Colour Chart of The  
Royal Horticultural Society of London (R.H.S.), 4th edition  
(2001). Anatomic labels are from The Cambridge Illustrated  
Glossary of Botanical Terms, by M. Hickey and C. King,  
Cambridge University Press.

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. A vigorous and branching growth habit;
2. White flowers with a very light pink tint; and
3. A strong root system.

DETAILED BOTANICAL DESCRIPTION

Classification:

*Family*.—Balsaminaceae.

*Botanical*.—*Impatiens interspecific* cross, *Impatiens*×  
*hybrida* (hort).

*Common name*.—*Impatiens*.

Parentage:

*Female parent*.—‘NG-01WD’, an unpatented propri-  
etary *Impatiens* breeding line with white flowers.

*Male parent*.—‘EL-1A-2’, an unpatented proprietary  
*Impatiens* breeding line with lilac flowers.

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.*—Vigorous and branching growth habit.

*Life cycle.*—Tender perennial.

*Height.*—30.0 cm to 32.0 cm from soil line to top of foliage.

*Spread.*—52.0 cm to 54.0 cm.

*Time to produce a rooted cutting.*—About 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., with ability to withstand high heat and humidity.

Branches:

*Number.*—14 total with 4 main branches.

*Length.*—2.0 cm from soil line to first node; 28.0 cm to 30.0 cm total.

*Diameter (main branch).*—1.0 cm.

*Color.*—RHS 185A (greyed-purple).

Stems:

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

*Length.*—5.0 cm from first to second node, 8.0 cm to 10.0 cm total.

*Diameter.*—0.6 cm to 0.8 cm.

*Internode length.*—5.0 cm.

*Color.*—RHS 185A (greyed-purple) and RHS 143B (green).

*Pubescence.*—Absent.

*Anthocyanin color.*—RHS 185D (greyed-purple).

Leaves:

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

*Length.*—9.0 cm to 10.0 cm.

*Width.*—3.0 cm to 3.5 cm.

*Shape.*—Lanceolate, curled.

*Apex.*—Acuminate.

*Base.*—Attenuate.

*Margin.*—Ciliate.

*Texture.*—Dull, waxy.

*Color.*—Upper surface: RHS 139A (green). Lower surface: RHS 137C (green).

*Variation.*—Absent.

*Fragrance.*—Absent.

*Pubescence.*—Absent.

*Venation.*—Pinnate.

*Venation color.*—Upper surface: RHS 138B (green).

Lower surface: RHS 138C (green).

*Petioles.*—Length: 0.6 cm to 0.8 cm. Diameter: 0.3 cm to 0.4 cm. Color RHS 138D (green) with RHS 185D (greyed-purple). Texture: Smooth, glabrous.

Flower buds:

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

*Length.*—1.0 cm.

*Diameter.*—1.0 cm.

*Color.*—RHS N155B (white) on the inside with RHS 142A (green) and specks of RHS 185C (greyed-purple) on the outside.

*Texture.*—Glabrous.

Inflorescence:

*Inflorescence.*—Single flower with spur.

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

*Number of flowers per plant.*—26 at one time.

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

*Fragrance.*—Absent.

Peduncles:

*Length.*—5.0 cm.

*Diameter.*—0.2 cm.

*Color.*—RHS 138B (green).

*Texture.*—Smooth, glabrous.

Corolla:

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

*Diameter.*—About 6.0 cm.

*Depth.*—0.1 cm to 0.2 cm.

Petals:

*Length.*—3.0 cm.

*Width.*—3.0 cm.

*Shape.*—Obovate.

*Apex.*—Emarginate (cleaved).

*Base.*—Attenuate.

*Margin.*—Entire.

*Texture.*—Glabrous.

*Color.*—Upper surface: RHS N155B (white). Lower surface: RHS N155B (white). Eye zone: RHS N155B (white).

Spur:

*Shape.*—Tubular and curved downward.

*Color.*—RHS N155B (white).

*Length.*—5.0 cm to 6.0 cm.

*Diameter.*—0.1 cm to 0.2 cm.

Sepals.—

*Shape.*—Lanceolate.

*Number.*—Two.

*Color.*—RHS N144D (yellow-green).

*Length.*—1.0 cm.

*Diameter.*—0.8 cm.

*Apex.*—Caudate.

*Base.*—Subcordate.

*Margin.*—Entire.

*Texture.*—Glabrous.

Reproductive organs:

*Stamens.*—Form: Fused; split into 4 lobes. Number: Many. Filament length: 0.3 cm. Filament color: RHS N155B (white). Anther length: 0.4 cm. Anther color

RHS N155B (white). Pollen amount: Abundant. Pollen color: RHS N155A (white). Pollen description: Powdery.

*Pistil*.—Number: 5. Stigma color: RHS 144A (green).

Style color: RHS 144A (green).

*Ovary arrangement*.—Parietal.

*Ovary surface color*.—RHS N144B (yellow-green).

Fruit and seed set: No seed set observed.

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

#### COMPARISON WITH PARENTAL AND KNOWN CULTIVARS

‘SAKIMP010’ differs from the female parent, ‘NG-01WD’, an unpatented proprietary *Impatiens* plant, in that ‘SAKIMP010’ has white flowers with a very light pink tint and a vigorous and branching growth habit, while ‘NG-01WD’ has white flowers and a branching growth habit.

‘SAKIMP010’ differs from the male parent, ‘EL-1A-2’, an unpatented proprietary *Impatiens* plant in that ‘SAKIMP010’ has white flowers with a very light pink tint and a vigorous and branching growth habit, while ‘EL-1A-2’ has lilac flowers and a branching growth habit.

‘SAKIMP010’ is similar to the commercial *Impatiens* variety ‘Misato FG4’ (U.S. Plant Pat. No. 17,613) however, there are differences as listed in the table below:

TABLE 1

Comparison of Characteristics between ‘SAKIMP010’ and ‘Misato FG4’		
Characteristic	‘SAKIMP010’	‘Misato FG4’
Growth habit	Vigorous, branching	Upright, branching
Petal color, upper surface	RHS N155B (White)	RHS N155A (white)
Petal color, lower surface	RHS N155B (White)	RHS N155A (white) with RHS 58B (red-purple) markings around the mid-vein
Plant Height at 4 months from transplant	30.0 cm to 32.0 cm from soil line to top of foliage	20.0 cm to 24.0 cm from soil line to top of foliage
Plant Spread at 4 months from transplant	52.0 cm to 54.0 cm	33.0 cm to 45.0 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

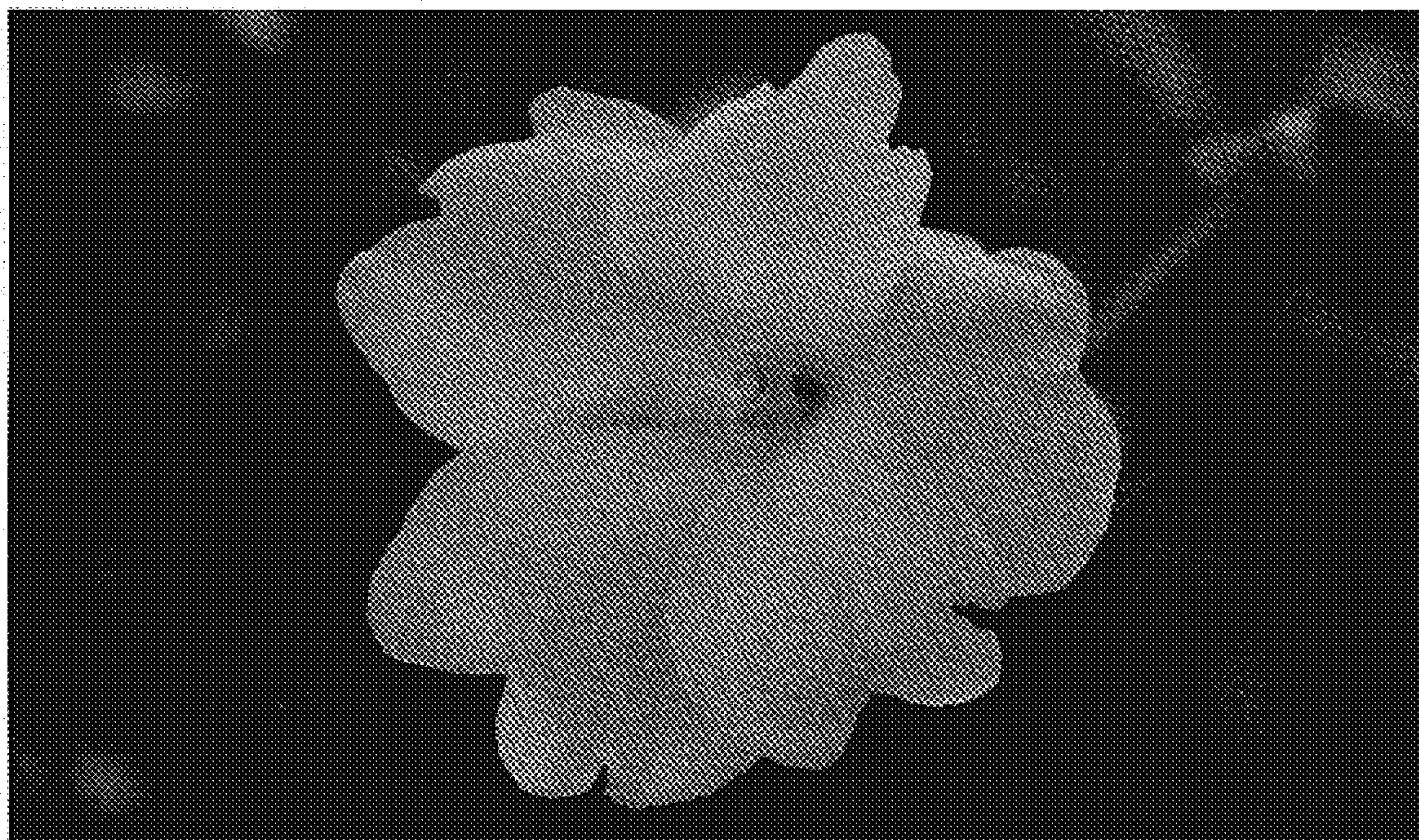


Fig. 2