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Kawashima et al.

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(54) **NEW GUINEA *IMPATIENS* PLANT NAMED
'SAKIMP014'**

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

(50) Latin Name: ***Impatiens*×*hybrida* (hort)**
Varietal Denomination: **'SAKIMP014'**

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

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

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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 com-
pact plant habit, and strong root system is disclosed.

(21) Appl. No.: **12/011,712**

(22) Filed: **Jan. 29, 2008**

1 Drawing Sheet

1

Genus and species: *Impatiens*×*hybrida* (hort):
Variety denomination: 'SAKIMP014.'

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 'SAKIMP014'. 'SAKIMP014' originated
from an interspecific hybridization between the female par-
ent 'NG-01 WD', an unpatented proprietary white flowered
Impatiens plant and the male parent 'EL-1A-2', an unpat-
ented proprietary lilac flowered *Impatiens* plant, in Misato,
Japan.

In February 2002, the female parent line 'NG-01WD' and
male parent line 'EL-1A-2' were crossed and a population of
F₁ plants was created. The F₁ plants were evaluated in
Misato, Japan in an open field trial. The criteria for plant
selection included flower quality, strong root system and
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 'SAKIMP014' and found to have its unique char-
acteristics reproduce true to type in successive generations
of asexual propagation.

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. White flowers with a very light pink tint;
2. Compact plant habit; and
3. Strong root system.

2

DESCRIPTION OF PHOTOGRAPHS

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. The photographs are of plants that are 5
months from their transplanting date and 6 months from the
stick date.

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

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

**DETAILED DESCRIPTION OF THE NEW
CULTIVAR**

The following detailed descriptions set forth the distinc-
tive characteristics of 'SAKIMP014'. 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 propagation by
terminal cuttings under greenhouse conditions. Color refer-
ences are primarily to the R.H.S. Colour Chart of The Royal
Horticultural Society of London (R.H.S.) 4th edition (2001).
Anatomic labels are from The Cambridge Illustrated Glos-
sary of Botanical Terms, by M. Hickey and C. King, Cam-
bridge University Press.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Balsaminaceae.

Botanical.—*Impatiens*×*hybrida* (hort).

Common name.—*Impatiens*.

Parentage:

Female parent.—'NG-01WD', an unpatented propri-
etary white flowered *Impatiens* plant.

Male parent.—'EL-1A-2', an unpatented proprietary
lilac 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.—Compact.

Life cycle.—Tender perennial.

Height.—10.0 cm to 12.0 cm from soil line to top of foliage.

Spread.—36.0 cm to 38.0 cm.

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. to 36° C.; plants can withstand high heat and humidity.

Branches:

Number.—16 total with 4 main branches.

Length.—1.0 cm to 1.5 cm from soil line to first node; 10.0 cm to 12.0 cm total.

Diameter (main branch).—0.6 cm to 0.8 cm.

Color.—RHS 185A (Greyed-Purple).

Stems:

Length.—2.0 cm from first to second node; 6.0 cm to 8.0 cm total.

Diameter.—0.5 cm.

Internode length.—3.0 cm.

Color.—RHS 185A (Greyed-Purple) and RHS 143C (Green).

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

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.—8.0 cm to 9.0 cm.

Width.—3.0 cm.

Shape.—Lanceolate, curled.

Margin.—Ciliate.

Apex.—Acuminate.

Base.—Attenuate.

Texture.—Dull; waxy.

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

Variegation.—Absent.

Fragrance.—Absent.

Pubescence.—Absent.

Venation.—Pinnate.

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

Lower surface: RHS 138C (Green).

Petioles.—Length: 0.5 cm. Diameter: 0.2 cm to 0.3 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 inside with RHS 142A (Green) and specks of RHS 185C (Greyed-purple) on outside.

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 in bloom at one time; about 10 flower buds.

Number of flowers per plant.—22 in bloom.

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.—5.5 cm.

Depth.—0.1 cm to 0.2 cm.

Petals:

Shape.—Obovate.

Length.—3.0 cm.

Width.—3.0 cm.

Apex.—Emarginate (cleaved).

Base.—Attenuate.

Margin.—Entire.

Pubescence.—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.—6.0 cm to 7.0 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:

5

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 144B (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
COMMERCIAL CULTIVARS

‘SAKIMP014’ is similar to the female parent ‘NG-01WD’ and the male parent ‘EL-1A-2’, however, there are differences as listed in the table below:

TABLE 1

Comparison of Characteristics between ‘SAKIMP014’ and parental cultivars			
Characteristic	‘SAKIMP014’	Male Parent ‘EL-1A-2’	Female Parent ‘NG-01WD’
Flower color	White with a very light pink tint	Lilac	White
Plant growth habit	Compact	Branching	Branching

6

‘SAKIMP014’ is similar to the commercial *Impatiens* variety ‘Misato FG4’ (U.S. Plant Pat. No. 17,613) (known commercially as ‘SunPatiens White’) however, there are differences as listed in the table below:

TABLE 2

Comparison of Characteristics between ‘SAKIMP014’ and ‘Misato FG3’		
Characteristic	‘SAKIMP014’	‘Misato FG4’
Growth habit	Compact	Upright, branching
Petal color, upper surface	RHS N155B (White)	RHS N155A (White)
Petal color, lower surface	RHS N155B (White)	N155A (White) with 58B (Red-purple) markings around mid-vein
Plant Height at 4 months from transplant	10.0 cm to 12.0 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	36.0 cm to 38.0 cm	33.0 cm to 35.0 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

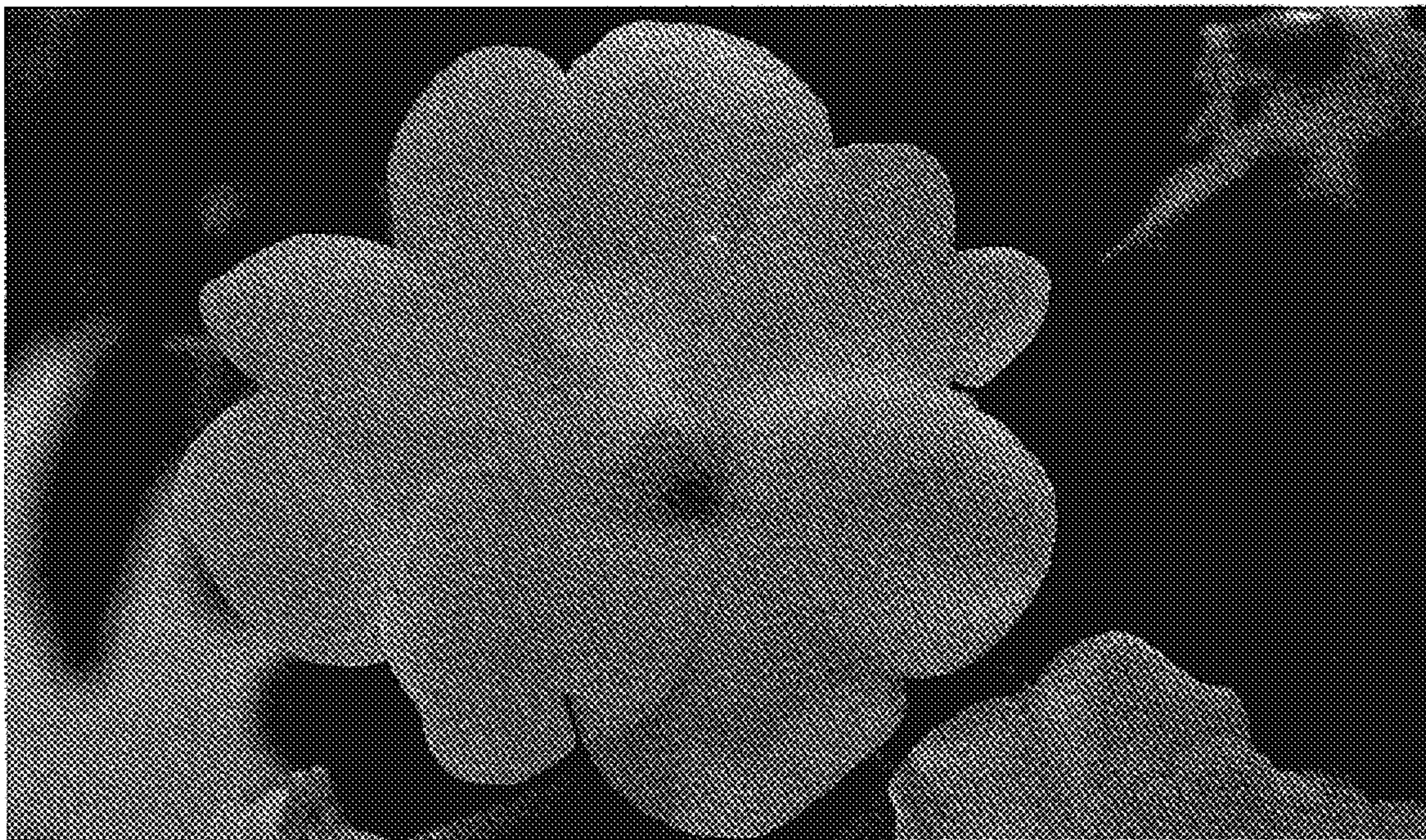


Fig. 2