

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

(10) **Patent No.:** **US PP19,392 P2**
(45) **Date of Patent:** **Oct. 28, 2008**

(54) **NEW GUINEA *IMPATIENS* PLANT NAMED
‘SAKIMP012’**

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

(50) Latin Name: *Impatiens*×*hybrida*
Varietal Denomination: **SAKIMP012**

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

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

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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.

(57) **ABSTRACT**

A New Guinea *Impatiens* cultivar particularly distinguished
by having red-purple flowers with light purple eyes, a strong
root system and a compact growth habit, is disclosed.

(21) Appl. No.: **12/009,943**

(22) Filed: **Jan. 23, 2008**

1 Drawing Sheet

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Genus and species: *Impatiens*×*hybrida* (hort).
Variety denomination: ‘SAKIMP012’.

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 ‘SAKIMP012’. ‘SAKIMP012’ originated
from an interspecific hybridization between the female par-
ent ‘NG-02WM1’, an unpatented proprietary orange-
flowered *Impatiens* breeding line and the male parent, ‘NG-
01H-9A’, an unpatented proprietary pink-lilac-flowered
Impatiens breeding line in Misato, Japan.

In April 2002, the female parent line ‘NG-02WM1’, and
male parent line, ‘NG-01H-9A’, were crossed and a popula-
tion 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 color, strong root system and com-
pact plant growth habit. At the completion of the trial, one
single-plant selection was made based on the above criteria
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 ‘SAKIMP012’ 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. Red-purple flowers with light purple eyes;
2. A compact growth habit; and
3. A strong root system.

DESCRIPTION OF THE PHOTOGRAPHS

This new *Impatiens* plant is illustrated by the accompany-
ing photographs which show overall plant habit including

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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 in the dis-
tinctive characteristics of ‘SAKIMP012’. The data which
define these characteristics were collected from asexual
reproductions carried out in Salinas, Calif. The plant history
was taken on plants grown for about five months from propa-
gation by terminal cuttings under greenhouse conditions.
Color references are primarily to the RHS Colour Chart of
The Royal Horticultural Society of London (RHS), 4th edi-
tion (2001). Anatomic labels are from The Cambridge Illus-
trated Glossary of Botanical Terms, by M. Hickey and C.
King, Cambridge University Press.

DETAILED BOTANICAL DESCRIPTION

Classification:

Family.—Balsaminaceae.

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

Common name.—*Impatiens*.

Parentage:

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

Male parent.—‘NG-01H-9A’, an unpatented propri-
etary pink-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 solu-

tion: 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% phosphorous 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, mounding, well-branched.

Life cycle.—Tender perennial.

Height.—20.0 cm to 22.0 cm from soil line to top of foliage.

Spread.—47.0 cm to 49.0 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.–36° C., with ability to withstand high heat and humidity.

Branches:

Number.—16 total with 8 main branches.

Length.—4.0 cm from soil line to first node; 13.0 cm to 15.0 cm total Diameter (main branch); 1.0 cm.

Color.—RHS 187B (Greyed-Purple).

Stems:

Length.—6.0 cm from first to second node, 11.0 cm to 12.0 cm total.

Diameter.—0.7 cm to 0.8 cm.

Internode length.—2.0 cm.

Color.—RHS 187C (Greyed-purple).

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

Pubescence.—Absent.

Anthocyanin color.—RHS 187C (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.—3.5 cm.

Shape.—Lanceolate, curled.

Apex.—Acuminate.

Base.—Attenuate.

Margin.—Ciliate.

Texture.—Dull; waxy.

Color.—Upper surface: RHS 139A (Green). Lower surface: RHS 147B (Yellow-Green) with blotches of RHS 187C (Greyed-Purple).

Variation.—Absent.

Fragrance.—Absent.

Pubescence.—Absent.

Venation.—Pinnate.

Venation color.—Upper surface: RHS 139D (Green).

Lower surface: RHS 185C (Greyed-Purple).

Petioles.—Length: 1.0 cm to 1.5 cm. Diameter: 0.5 cm to 0.6 cm. Color: RHS 185C (Greyed-Purple). Texture: Smooth, glabrous.

Flower buds:

Shape.—Deltoid, longitudinal cross-section.

Length.—1.5 cm.

Diameter.—1.3 cm.

Color.—RHS N74A (Red-Purple) and RHS 187A (Greyed-Purple).

Texture.—Glabrous.

Inflorescence:

Inflorescence type.—Single flower with spur.

Number of flowers per node.—1 to 2 in bloom at one time; about 3–4 flower buds per node.

Number of flowers per plant.—36 at one time.

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

Fragrance.—Absent.

Peduncles:

Length.—3.5 cm–3.6 cm.

Diameter.—0.1 cm to 0.2 cm.

Color.—RHS 146D (Yellow-Green).

Texture.—Smooth, glabrous.

Corolla:

Shape.—Roughly circular with 5 radial petals.

Diameter.—6.0 cm.

Depth.—0.2 cm to 0.3 cm.

Petals:

Shape.—Obcordate.

Length.—2.4 cm to 2.6 cm.

Width.—3.0 cm to 3.2 cm.

Apex.—Emarginate (cleaved).

Base.—Attenuate.

Margin.—Entire.

Pubescence.—Glabrous.

Color.—Upper surface: RHS N74A (Red-Purple).

Lower surface: RHS N74C (Red-Purple). Eye zone: RHS 76D (Purple).

Spur:

Shape.—Tubular and curved downward.

Color.—RHS 76D (Purple).

Length.—4.0 cm.

Diameter.—0.2 cm.

Sepals:

Shape.—Lanceolate.

Number.—Two.

Color.—RHS 145D (Yellow-Green).

Length.—1.0 cm.

Diameter.—0.5 cm.

Apex.—Caudate.

Base.—Subcordate.

Margin.—Entire.

Texture.—Glabrous.

Reproductive organs:

Stamens.—Form: Fused; split into 4 lobes. Number: Many. Filament length: 0.4 cm. Filament color: RHS N74A (Red-Purple). Anther length: 0.3 cm. Anther color: RHS N155A (White). Pollen amount: Abundant. Pollen color: RHS N155A (White). Pollen description: Powdery.

Pistil.—Number: 5. Stigma color: RHS 143A (Green).

Style color: RHS 143A (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 KNOWN CULTIVARS

‘SAKMIMP012’ differs from the female parent, ‘NG-02WM1’, an unpatented proprietary *Impatiens* plant, in that ‘SAKIMP012’ has red-purple flowers with light purple eyes, while ‘NG-02WM1’ has orange flowers. Additionally, ‘SAKIMP012’ has a compact growth habit, while ‘NH-02WM1’ has a branching growth habit.

‘SAKIMP012’ differs from the male parent, ‘NG-01H-9A’, an unpatented proprietary *Impatiens* plant in that ‘SAKIMP012’ has red-purple flowers with light purple eyes, while ‘NG-01H-9A’ has Pink-Lilac flowers. Additionally, ‘SAKIMP012’ has a compact growth habit, while ‘NG-01H-9A’ has a branching growth habit.

‘SAKIMP012’ is similar to the commercial *Impatiens* variety ‘Misato FG3’ (U.S. Plant Pat. No. 17,662) however, there are differences as listed in the table below:

TABLE 1

Comparison of Characteristics between ‘SAKIMP012’ and ‘Misato FG3’		
Characteristic	‘SAKIMP012’	‘Misato FG3’
Growth habit	Compact	Upright, branching
Petal color, Upper surface	RHS N74A (Red-Purple)	RHS N66A (Red-Purple)
Petal color, Lower surface	RHS N74C (Red-Purple)	RHS 61C (Red-purple)

I claim:

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

* * * * *



Fig. 1

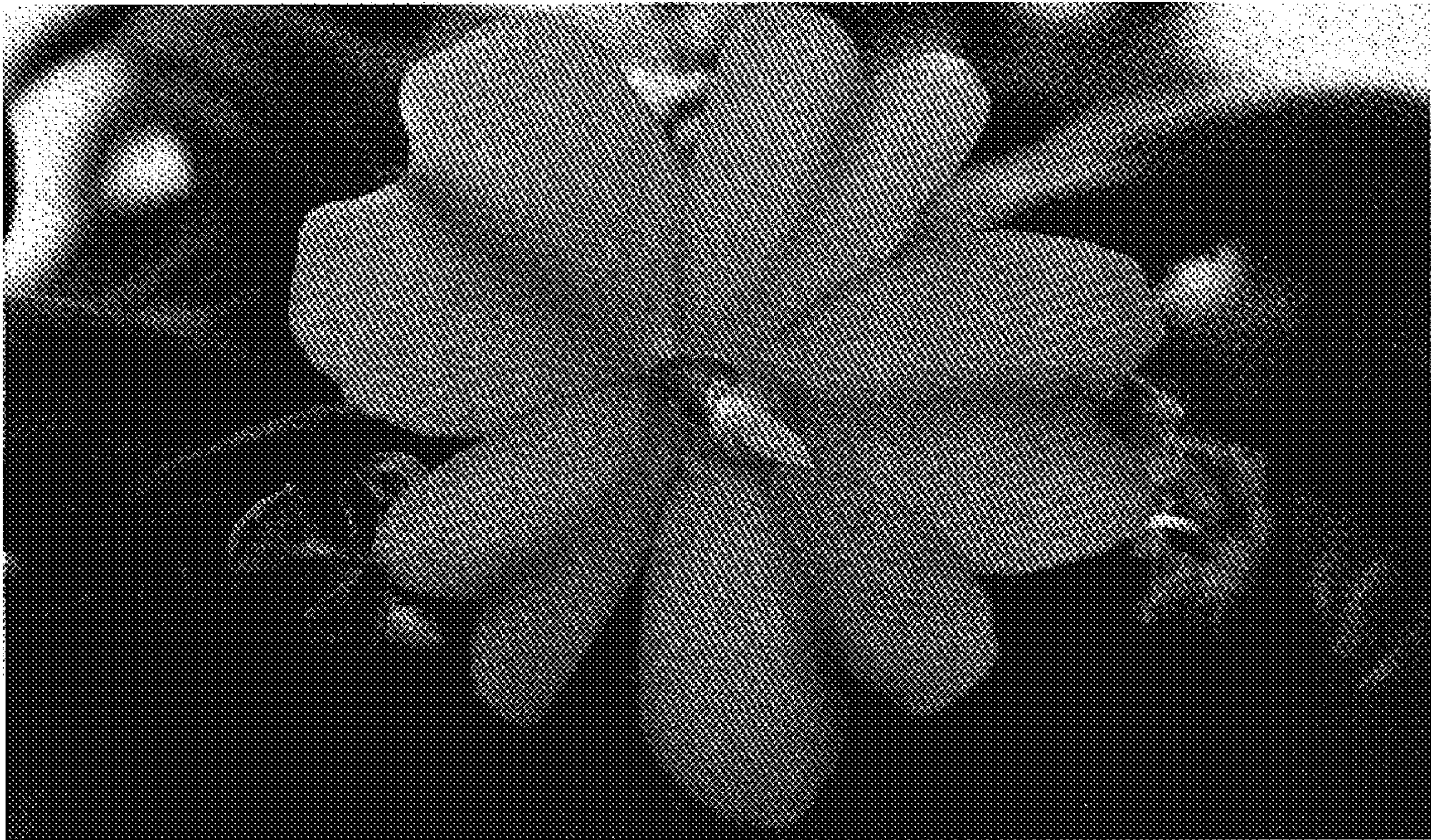


Fig. 2