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Sato et al.

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(54) **NEW GUINEA *IMPATIENS* PLANT NAMED
'SAKIMP034'**

(50) Latin Name: *Impatiens* hybrid hort.
Varietal Denomination: **SAKIMP034**

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(57) **ABSTRACT**

An *impatiens* plant particularly distinguished by having a
many beautiful purple flowers with a white and red-purple
eye, a strong root system, and a spreading habit, is disclosed.

2 Drawing Sheets

1

Genus and species: *Impatiens* hybrid hort.
Variety denomination: 'SAKIMP034'.

BACKGROUND OF THE NEW PLANT

The present invention comprises a new and distinct variety
of New Guinea *impatiens* plant, botanically known as *Impa-
tiens hybrida* hort., and referred to by the variety name
'SAKIMP034' and characterized by having purple flowers
with a white and red-purple eye, a strong root system, and a
compact habit. *Impatiens* variety 'SAKIMP034' originated
from a hybridization in Misato, Japan in April 2010. The
female parent was a proprietary *impatiens* breeding line
named 'NH-505-2H' (unpatented) having salmon colored
flowers. The male parent was a proprietary *impatiens* breed-
ing line named 'NE-502' (unpatented) having lilac colored
flowers.

'SAKIMP034' was selected in April 2010 from the F₁
progeny. From May through August of 2011, 'SAKIMP034'
was evaluated for its performance. In May through August
2012, 'SAKIMP034' was first vegetatively propagated, cul-
tivated, and transplanted to the greenhouse and to the field for
outdoor evaluation. 'SAKIMP034' was found to reproduce
true to type in successive generations of asexual propagation
via vegetative cuttings in Salinas, Calif.

SUMMARY

The following are the most outstanding and distinguishing
characteristics of this new variety when grown under normal
horticultural practices in Salinas, Calif.

1. Purple flowers with a white and red-purple eye;
2. A strong root system; and
3. A spreading habit.

DESCRIPTION OF THE PHOTOGRAPHS

This *impatiens* plant is illustrated by the accompanying
photographs which show the plant's overall plant habit

2

including form, foliage, and flowers. The photographs are of
a 4 month old plant grown in Salinas, Calif. under greenhouse
conditions in the spring of 2014. The colors shown are as true
as can be reasonably obtained by conventional photographic
procedures.

FIG. 1 shows the overall plant habit of the plant grown in a
pot.

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

DESCRIPTION OF THE NEW VARIETY

The following detailed descriptions set forth the distinctive
characteristics of 'SAKIMP034'. Data was collected on
plants grown three months from transplant into 4-inch posts
from rooted cuttings in Salinas, Calif., under greenhouse
conditions in the spring 2014. Plants were pinched once dur-
ing growth. Color references are to The Royal Horticultural
Society of London colour chart (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.

Classification:

- Family.*—Balsaminaceae.
- Botanical.*—*Impatiens hybrida* hort.
- Common.*—*Impatiens*.
- Designation.*—'SAKIMP034'.

Parentage:

- Female parent.*—'NH-505-2H' (unpatented).
- Male parent.*—'NE-502' (unpatented).

Growth:

- Time to produce a rooted cutting.*—About 4 weeks.
- Environmental conditions for plant growth.*—The ter-
minal 1.0 to 1.5 inches of an actively growing stem
was excised. The vegetative cuttings were propagated
for 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. Rooted cuttings were transplanted and grown in 20 cm diameter 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. Pots were top-dressed with a dry, slow release fertilizer containing 20% nitrogen, 10% phosphorus and 18% potassium. The typical average air temperature was 24° C.

Plant description:

Habit and form.—Spreading.

Height.—21.0 cm from soil line to the top of the plant; 1.0 cm from soil line to first node; and 4.0 cm from the first node to the second node.

Spread.—40.0 cm.

Number of branches.—3 main, 5 total.

Length of branches.—11.0 cm.

Diameter of branches.—1.7 cm.

Life cycle.—Annual.

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

Flowering requirements (season).—Spring to first frost.

Temperature tolerances.—Heat tolerant.

Stems:

Stem color.—RHS 145A (Yellow-Green) with RHS 59B (Red-Purple).

Anthocyanin color.—Slight RHS 59B (Red-Purple).

Stem pubescence.—Absent.

Stem description.—Smooth; circular cross-section.

Stem length.—13.0 cm.

Stem diameter.—0.5 cm.

Internode length.—5.0 cm.

Branches:

Branch color.—RHS 145A (Yellow-Green) with RHS 59B (Red-Purple).

Anthocyanin color.—Slight RHS 59B (Red-Purple).

Branch pubescence.—Absent.

Branch description.—Smooth; circular cross-section.

Branch length.—11.0 cm.

Branch diameter.—1.7 cm.

Internode length.—4.0 cm.

Leaves:

Leaf arrangement.—Whorled with up to 5 leaves per node; opposite if only 2 leaves at one node.

Leaf shape.—Lanceolate; curled.

Leaf apex.—Acuminate.

Leaf base.—Attenuate.

Leaf margin.—Ciliate.

Leaf surface.—Dull, waxy.

Leaf length.—10.5 cm.

Leaf width.—3.5 cm.

Leaf color.—Upper: RHS 139A (Green). Lower: RHS 147B (Yellow-Green).

Leaf variegation.—Absent.

Leaf fragrance.—Absent.

Leaf surface pubescence.—Very slight and very short.

Pubescence color.—RHS N155A (White).

Petiole length.—1.5 cm.

Petiole diameter.—3.0 mm.

Petiole color.—RHS 148D with slight RHS 59D (Red-Purple).

Venation.—Pinnate.

Venation color (both surfaces).—RHS 148D (Yellow-Green).

Inflorescence:

Number of flowers per plant.—Approximately 30.

Number of flowers per node.—1 to 3 in bloom; about 4 to 6 flower buds per node.

Inflorescence type.—Single flowers with spur; 5 petals.

Fragrance.—Absent.

Lastingness of individual blooms on plant.—14 days.

Corolla:

Corolla shape.—Roughly circular with 5 radial petals.

Corolla diameter.—5.0 cm.

Corolla depth.—1.0 cm.

Calyx:

Sepal number.—2.

Sepal shape.—Lanceolate, curled.

Sepal apex.—Caudate.

Sepal base.—Subcordate.

Sepal margin.—Entire.

Sepal length.—8.0 mm.

Sepal width.—8.0 mm.

Sepal color (both surfaces).—RHS 144A (Yellow-Green).

Sepal texture.—Glabrous.

Bud:

Bud surface.—Smooth, shiny, glabrous.

Bud length.—1.8 cm.

Bud diameter.—1.5 cm.

Bud shape.—Deltoid, longitudinal cross-section.

Bud color.—RHS N78B (Purple) with RHS 144A (Yellow-Green) at the edge.

Peduncle:

Peduncle length.—5.0 cm.

Peduncle diameter.—3.0 mm.

Peduncle color.—RHS 145A (Yellow-Green).

Petals:

Petal texture (both surfaces).—Glabrous.

Petal length.—3.5 cm.

Petal width.—3.5 cm.

Petal shape.—Obovate.

Petal apex.—Emarginate, cleaved.

Petal margin.—Entire.

Petal color.—Upper surface: Closest to RHS N78A (Purple). Lower surface: RHS N78C (Purple). Eye zone: RHS N155A (White) and RHS 61A (Red-Purple).

Spur:

Spur color.—RHS 157A (Green-White) with RHS N74B (Red-Purple) and RHS 144A (Yellow-Green) at the tip.

Spur shape.—Tubular, curved downward.

Spur length.—5.0 cm.

Spur diameter.—1.0 mm.

Reproductive organs:

Stamens.—Stamen form: Fused, split into 4 lobes. Stamen number: 4 fused forming a cap over the ovary. Filament color: RHS N78A (Purple). Filament length: 5.0 mm. Anther color: RHS N155D (White).

Pistil.—Pistil number: 1. Stigma color: RHS 145D (Yellow-Green). Stigma length: 1.0 mm. Style color: RHS 141A (Green). Style length: 5.0 mm.

Ovary.—Ovary arrangement: Parietal. Ovary surface color: RHS N144D (Yellow-Green).
Pollen.—Pollen amount: Abundant. Pollen description: Powdery. Pollen color: RHS 158A (Yellow-White).
Seed production.—Absent.
 Disease and insect resistance: No particular resistance or susceptibility observed.

COMPARISON WITH PARENTAL LINES AND KNOWN VARIETY

‘SAKIMP034’ is most similar to the commercial New Guinea *impatiens* variety ‘SAKIMP016’ (U.S. Plant Pat. No. 21,769); however, there are differences as listed in the table below:

TABLE 1

Comparison with Similar Variety		
Characteristic	‘SAKIMP034’	‘SAKIMP016’
Upper surface petal color	Closest to RHS N78A (Purple)	RHS N66A (Red-Purple)
Lower surface petal color	RHS N78C (Purple)	RHS N66B (Red-Purple)

TABLE 1-continued

Comparison with Similar Variety		
Characteristic	‘SAKIMP034’	‘SAKIMP016’
Eye zone	RHS N155A (White) and RHS 61A (Red-Purple)	RHS N74B (Red-Purple)

‘SAKIMP034’ differs from the parental lines ‘NH-505-2H’ and ‘NE-502’ as described in Table 2 below.

TABLE 2

Comparison with Parental Lines			
Characteristic	‘SAKIMP034’	‘NH-505-2H’	‘NE-502’
Flower color	Purple	Salmon	Lilac

We claim:

1. A new and distinct variety of New Guinea *impatiens* plant named ‘SAKIMP034’ as described and illustrated herein.

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FIG. 1



FIG. 2