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**Sato et al.**

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- (54) **NEW GUINEA *IMPATIENS* PLANT NAMED ‘SAKIMP035’**
- (50) Latin Name: *Impatiens hybrida hort*  
Varietal Denomination: **SAKIMP035**
- (71) Applicant: **Sakata Seed Corporation**, Yokohama (JP)
- (72) Inventors: **Chihiro Sato**, Nagano (JP); **Shinji Minemura**, Nagano (JP)
- (73) Assignee: **Sakata Seed Corporation**, Yokohama (JP)
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- (52) **U.S. Cl.**  
USPC ..... **Plt./318.6**

(58) **Field of Classification Search**  
USPC ..... Plt./318.1, 318.6  
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

Sakata Ornamentals 2014 Catalog website ([http://www.sakataornamentals.com/\\_ccLib/attachments/pages/Sakata+Ornamental+Catalog+2014.pdf](http://www.sakataornamentals.com/_ccLib/attachments/pages/Sakata+Ornamental+Catalog+2014.pdf)). Dec. 8, 2015 (2 pages).  
Sakata website ([http://sakataornamentals.com/index.cfm/fuseaction/plants.printDetail/plant\\_ID/3316/index.htm](http://sakataornamentals.com/index.cfm/fuseaction/plants.printDetail/plant_ID/3316/index.htm)). Dec. 8, 2015 (1 page).\*

\* cited by examiner

*Primary Examiner* — Susan McCormick Ewoldt  
*Assistant Examiner* — Karen Redden

(74) *Attorney, Agent, or Firm* — Barbara Campbell; Bethany R. Roahrig; Cochran Freund & Young, LLC

(57) **ABSTRACT**

A New Guinea *impatiens* plant particularly distinguished by red-purple flowers with red-purple eyes and a spreading plant habit, is disclosed.

**1 Drawing Sheet**

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Genus and species: *Impatiens hybrida hort.*  
Variety denomination: ‘SAKIMP035’.

**BACKGROUND OF THE NEW PLANT**

The present invention comprises a new and distinct variety of New Guinea *impatiens* plant, botanically known as *Impatiens hybrida hort.*, and referred to by the variety name ‘SAKIMP035’ and characterized by having bright flower color, a strong root system, and a spreading habit. *Impatiens* variety ‘SAKIMP035’ originated from a hybridization in Misato, Japan in December 2010. The female parent was a proprietary *impatiens* breeding line named ‘NE-5331’ (unpatented) having salmon-orange colored flowers, and the male parent was a proprietary *impatiens* breeding line named ‘NG-424D’ (unpatented) having lilac colored flowers.

‘SAKIMP035’ was selected in December 2010 from the F<sub>1</sub> progeny. From May through August 2012, ‘SAKIMP035’ was evaluated for its performance. In May through August 2013, ‘SAKIMP035’ was first vegetatively propagated, cultivated, and transplanted to the greenhouse and to the field for outdoor evaluation. ‘SAKIMP035’ 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. Red-purple flowers with red-purple eyes; and
2. A spreading plant habit.

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**DESCRIPTION OF THE PHOTOGRAPHS**

This *impatiens* plant is illustrated by the accompanying photographs which show the plant’s overall plant habit including form, foliage, and flowers. The photographs are of a 4-month old plant grown in Salinas, Calif. under greenhouse conditions in spring 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 ‘SAKIMP035’. 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 during growth. Color references are to The Royal Horticultural Society of London color chart (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.

**Classification:**

- Family.*—Balsaminaceae.
- Botanical.*—*Impatiens hybrida hort.*
- Common.*—*Impatiens.*
- Designation.*—‘SAKIMP035’.

## Parentage:

*Female parent.*—‘NE-5331’ (unpatented).

*Male parent.*—‘NG-424D’ (unpatented).

## Growth:

*Time to produce a rooted cutting.*—About 4 weeks. 5

*Environmental conditions for plant growth.*—The terminal 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.*—Spreading.

*Height.*—19.0 cm from soil line to the top of the plant; 1.0 cm from soil line to first node; and 2.0 cm from the first node to the second node. 30

*Spread.*—48.0 cm.

*Number of branches.*—4 main, 8 total.

*Length of branches.*—6.0 cm. 35

*Diameter of branches.*—1.0 cm.

*Life cycle.*—Annual; a tender perennial in warm climates.

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

*Flowering requirements (season).*—Spring to first frost. 40

*Temperature tolerances.*—Heat tolerant.

## Stems:

*Stem color.*—RHS 59A (Red-Purple).

*Anthocyanin color.*—Absent.

*Stem pubescence.*—Absent.

*Stem description.*—Smooth; circular cross-section.

*Stem length.*—13.0 cm.

*Stem diameter.*—6.0 mm.

*Internode length.*—5.0 cm.

## Branches:

*Branch color.*—RHS 59A (Red-Purple).

*Anthocyanin color.*—Absent.

*Branch pubescence.*—Absent.

*Branch description.*—Smooth; circular cross-section.

*Branch length.*—6.0 cm.

*Branch diameter.*—1.0 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. 60

*Leaf shape.*—Lanceolate; curled.

*Leaf apex.*—Acuminate.

*Leaf base.*—Attenuate.

*Leaf margin.*—Ciliate.

*Leaf surface.*—Dull, waxy.

*Leaf length.*—9.0 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.

*Leaf surface pubescence color.*—RHS N155A (White).

*Petiole length.*—1.5 cm.

*Petiole diameter.*—3.0 mm.

*Petiole color.*—RHS 59D (Red-Purple).

*Venation.*—Pinnate.

*Venation color.*—Upper surface: RHS 147D (Yellow-Green). Lower surface: RHS 59C (Red-Purple).

## Inflorescence:

*Number of flowers per plant.*—Approximately 80.

*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.*—6.0 cm.

*Corolla depth.*—0.5 cm. 25

## Calyx:

*Sepal number.*—2.

*Sepal shape.*—Lanceolate, curled.

*Sepal apex.*—Caudate.

*Sepal base.*—Subcordate.

*Sepal margin.*—Entire.

*Sepal length.*—0.8 cm.

*Sepal width.*—0.7 cm.

*Sepal color (both surfaces).*—RHS 144A (Yellow-Green) and RHS 59D (Red-Purple). 35

*Sepal texture (both surfaces).*—Glabrous.

## Bud:

*Bud surface.*—Smooth, shiny, and glabrous.

*Bud length.*—2.2 cm.

*Bud diameter.*—1.4 cm.

*Bud shape.*—Deltoid, longitudinal cross-section.

*Bud color.*—RHS 58C (Red-Purple) with RHS 59B (Red-Purple).

## Peduncle:

*Peduncle length.*—5.0 cm.

*Peduncle diameter.*—2.0 mm.

*Peduncle color.*—RHS 59C (Red-Purple).

## Petals:

*Petal pubescence (both surfaces).*—Glabrous.

*Petal length.*—3.5 cm.

*Petal width.*—3.0 cm.

*Petal shape.*—Obovate.

*Petal apex.*—Emarginate, cleaved.

*Petal margin.*—Entire.

*Petal color.*—Upper surface: Closest to RHS 58C (Red-Purple). Lower surface: Closest to RHS 58D (Red-Purple). Eye zone: RHS 62D (Red-Purple) and RHS 61A (Red-Purple). Eye zone width: Approximately 0.5 cm. 55

## Spur:

*Spur color.*—RHS 62D (Red-Purple) and RHS 62A (Red-Purple).

*Spur shape.*—Tubular, curved downward.

*Spur length.*—5.0 cm.

*Spur diameter.*—1.0 mm. 65

Reproductive organs:

*Stamens*.—Stamen form: Fused, split into 4 lobes. Stamen number: 4, fused and forming a cup over the ovary. Filament color: RHS 58B (Red-Purple). Filament length: 5.0 mm. Anther color: RHS N155D (White). Anther length: 1.0 mm.

*Pistil*.—Pistil number: 1. Stigma color: RHS 145D (Yellow-Green). Stigma length: 0.2 cm. Style color: RHS 147A (Yellow-Green). Style length: 0.5 cm.

*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

'SAKIMP035' is most similar to the commercial New Guinea *impatiens* variety 'SAKIMP021' (U.S. Plant Pat. No. 22,516); however, there are differences as listed in the table below:

TABLE 1

Comparison with Similar Variety		
Characteristic	'SAKIMP035'	'SAKIMP021'
Petal size	3.5 cm for petal length and 3.0 for petal width	2.0 cm for petal length and 2.5 cm for petal width
Plant height	19.0 cm	35.0 cm

'SAKIMP035' differs from the parental lines 'NE-5331' and 'NG-424D' as described in Table 2 below.

TABLE 2

Comparison with Parental Lines			
Characteristic	'SAKIMP035'	'NE-5331'	'NG-424D'
Flower color	Red-Purple	Salmon-Orange	Lilac

We claim:

1. A new and distinct variety of New Guinea *Impatiens* plant named 'SAKIMP035' as illustrated and described herein.

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FIG. 1



FIG. 2