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(54) **NEW GUINEA *IMPATIENS* PLANT NAMED  
'SAKIMP027'**

(50) Latin Name: *Impatiens hybrida hort*  
Varietal Denomination: **SAKIMP027**

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See application file for complete search history.

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(57) **ABSTRACT**

A New Guinea *Impatiens* plant particularly distinguished by  
having a white flower color, strong root system and a compact  
plant growth habit, is disclosed.

**1 Drawing Sheet**

**1**

Genus and species: *Impatiens hybrida hort*.  
Variety denomination: 'SAKIMP027'.

**BACKGROUND OF THE NEW PLANT**

The present invention comprises of a new and distinct  
cultivar of New Guinea *Impatiens*, botanically known as  
*Impatiens hybrida hort*, and referred to by the variety name  
'SAKIMP027'. *Impatiens* variety 'SAKIMP027' originated  
from a hybridization in Misato, Japan between the female  
*Impatiens* line 'NE-4391', an unpatented proprietary *Impa-*  
*tiens* breeding line with a white flower color and the male  
*Impatiens* line 'H-10UA', an unpatented proprietary *Impa-*  
*tiens* breeding line with a white flower color.

In October 2008, the female parent line 'NE-4391' and the  
male parent line 'H-10UA' were crossed and a population 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 a beautiful white 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 afore-  
mentioned criteria and vegetatively propagated. From May to  
August 2010, the selection was evaluated in an open field in  
Misato, Japan. The selection subsequently was named  
'SAKIMP027'. The selection has been asexually propagated  
by means of vegetative cuttings at Salinas, Calif., and has  
been found to retain all of its unique characteristics and repro-  
duce true to type in successive generations though such veg-  
etative propagation.

**SUMMARY**

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

1. White flower color;
2. Strong root system; and
3. A compact plant growth 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 four-month-old plant grown in Salinas, Calif. under green-  
house conditions in the spring of 2012. The colors shown are  
as true as can be reasonably obtained by conventional photo-  
graphic 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 'SAKIMP027'. The data which define these  
characteristics were collected from asexual reproductions  
carried out in Salinas, Calif. Data was collected on four-  
month-old plants grown under greenhouse conditions in Sali-  
nas, Calif. in the summer of 2012. Color references are to The  
R.H.S. Colour Chart of The Royal Horticultural Society of  
London (R.H.S.), 4<sup>th</sup> edition (2001).

**Classification:**

*Family*.—Balsaminaceae.

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

*Common*.—*Impatiens*.

*Designation*.—'SAKIMP027'.

**Parentage:**

*Female parent*.—Proprietary *Impatiens* line 'NE-4391'  
(unpatented).

*Male parent*.—Proprietary *Impatiens* line 'H-10UA' (un-  
patented).

**Growth:**

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

*Environmental conditions for plant growth*.—The termi-  
nal 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. 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 to 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 (from soil line to top of foliage)*.—18.0 cm.

*Spread*.—42.0 cm.

*Flowering requirements*.—Will flower so long as temperature is above 5° C.

*Temperature tolerances*.—Plants observed to continue flowering in a temperature range of 5° C. to 36° C. Plants can withstand high heat and humidity.

## Branches:

*Number of branches*.—5 main branches, 13 branches total.

*Length of branches*.—Approximately 2.0 cm from soil line to first node, approximately 9.0 cm total.

*Diameter of branches*.—1.0 cm for the main branch.

*Color of branches*.—Closest to but lighter than RHS 146A (Yellow-Green).

## Stems:

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

*Stem length*.—6.0 cm.

*Diameter*.—0.7 cm.

*Internode length*.—3.0 cm.

*Color*.—RHS 146A (Yellow-Green) with slight anthocyanin.

*Pubescence*.—Absent.

*Anthocyanin color*.—RHS 187B (Greyed-Purple).

## Leaves:

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

*Shape*.—Lanceolate, curled.

*Apex*.—Acuminate.

*Base*.—Attenuate.

*Margin*.—Ciliate.

*Surface appearance (both surfaces)*.—Dull, waxy.

*Surface pubescence (both surfaces)*.—Absent.

*Length*.—8.5 cm.

*Width*.—3.5 cm.

*Color*.—Upper surface: Darker than but closet to RHS 147A (Yellow-Green). Lower surface: RHS 147B (Yellow-Green).

*Venation*.—Pinnate.

*Venation color (upper and lower surfaces)*.—RHS 145C (Yellow-Green).

*Variation*.—Absent.

*Fragrance*.—Absent.

*Petiole*.—Length: 1.0 cm. Diameter: 0.2 cm. Color: RHS 145C (Yellow-Green). Texture: Smooth, glabrous.

## Flowers:

*Total number of flowers per node*.—1 to 3 in bloom, about 4 to 6 flower buds per node.

*Total number of flower per plant*.—Approximately 50 in bloom.

*Inflorescence type*.—Single flower with spur.

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

*Fragrance*.—Absent.

## Flower bud:

*Surface texture*.—Glabrous.

*Length*.—2.0 cm.

*Diameter*.—1.5 cm.

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

*Color*.—RHS 155D (White) with RHS 143C (Green) at the edges.

## Peduncle:

*Length*.—3.5 cm.

*Diameter*.—0.2 cm.

*Color*.—RHS 146A (Yellow-Green).

*Surface texture*.—Glabrous, smooth.

## Corolla:

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

*Diameter*.—Approximately 6.0 cm.

*Depth*.—1.0 cm.

*Petals*.—Shape: Obcordate. Apex: Emarginate (cleaved). Base: Attenuate. Margin: Entire. Pubescence (both surfaces): Glabrous. Length: 3.0 cm. Width: 3.4 cm. Color: Upper: Closest to RHS N155A (White). Lower: Closest to RHS N155A (White). Eye zone: Closest to RHS N155A (White).

## Spur:

*Shape*.—Tubular; curved downward.

*Length*.—6.0 cm.

*Diameter*.—0.2 cm.

*Color*.—Closest to RHS N155A (White).

## Calyx:

*Arrangement*.—Composed of 2 sepals.

*Sepals*.—Shape: Lanceolate. Apex: Caudate. Base: Subcordate. Margin: Entire. Surface texture: Glabrous. Color: RHS 145A (Yellow-Green). Length: 1.2 cm. Diameter: 0.8 mm.

## Reproductive organs:

*Stamen number*.—Many.

*Stamen form*.—Fused; split into 4 lobes.

*Filament length*.—0.6 cm.

*Filament color*.—RHS 36A (Red).

*Anther length*.—0.5 cm.

*Anther color*.—RHS 155A (White).

*Pollen color*.—RHS 155D (White).

*Pollen amount*.—Abundant.

*Pollen description*.—Powdery.

*Ovary arrangement*.—Parietal.

*Ovary surface color*.—RHS 145A (Yellow-Green).

*Pistil number*.—5.

*Stigma color*.—RHS 143A (Green).

*Style length*.—0.6 cm.

*Style color*.—RHS 143A (Green).

*Seed production*.—Absent.

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

COMPARISON WITH PARENTAL LINES AND KNOWN VARIETY

'SAKIMP027' is a new and unique variety of *Impatiens* owing to its white flower color, strong root system and a compact plant growth habit. 'SAKIMP027' is distinguished from its parents mainly by flower color as shown in Table 1 below:

TABLE 1

Comparison with Parental Lines			
Characteristic	'SAKIMP027'	Female Parent 'NE-4391'	Male Parent 'H-10UA'
Flower color	White	Pinkish-white	White
Plant habit	Compact	Less compact than 'SAKIMP027'	More compact than 'SAKIMP027'
Flower size	Large	Medium	Extra-large
Leaf variegation	Absent	Present	Absent

'SAKIMP027' is a new and unique variety of *Impatiens* owing to its white flower color, strong root system and a compact plant growth habit. 'SAKIMP027' is most similar to the commercial *Impatiens* variety 'SAKIMP010' (U.S. Plant Pat. No. 19,616), commercially known as SunPatiens® 'Vigorous White Improved'; however there are differences as described in the table below.

TABLE 2

Comparison with Similar Variety		
Characteristic	'SAKIMP027'	'SAKIMP010'
Petal color, upper surface	RHS N155A (White)	RHS N155B (White)
Petal color, lower surface	RHS N155A (White)	RHS N155B (White)
Plant habit	Compact	Vigorous

We claim:

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

\* \* \* \* \*





FIG. 1

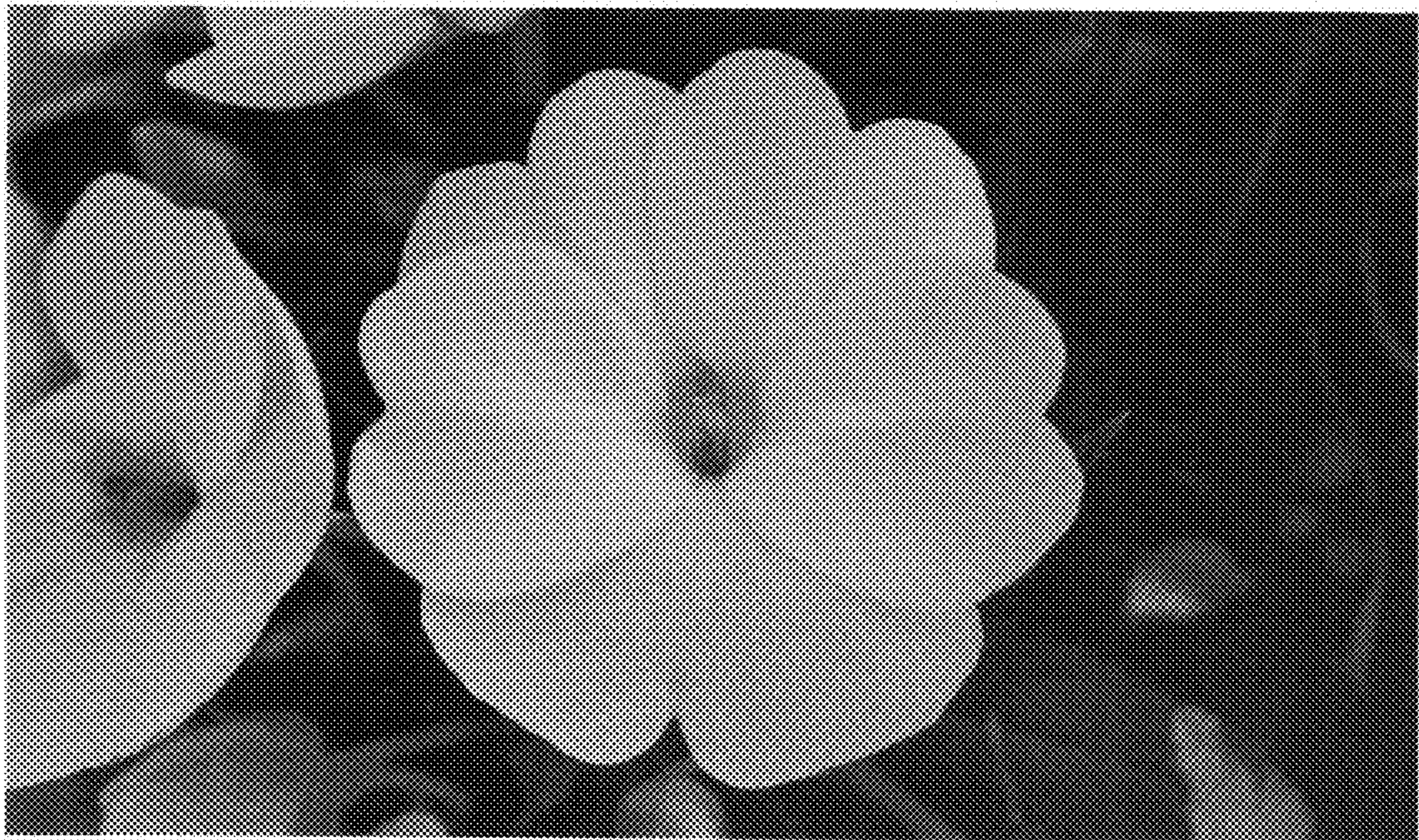


FIG. 2