



(12) **United States Plant Patent**
Danziger

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(54) **IMPATIENS PLANT NAMED ‘ DHAR354’**

(50) Latin Name: *Impatiens hawkeri*
Varietal Denomination: **DHAR354**

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patent is extended or adjusted under 35
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(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.**
USPC **Plt./318.1**

(58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct *Impatiens* cultivar named ‘DHAR354’ is disclosed, characterized by large white center and scarlet margin. The new variety has a compact growth habit and good branching. The new variety is a *Impatiens*, normally produced as an outdoor garden or container plant.

2 Drawing Sheets

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Latin name of the genus and species: *Impatiens hawkeri*.
Variety denomination: ‘DHAR354’.

BACKGROUND OF THE INVENTION

The new *Impatiens* cultivar is a product of a planned breeding program conducted by the inventor, Gavriel Danziger, in Moshav Mishmar Hashiva, Israel. The objective of the breeding program was to produce new *Impatiens* varieties for ornamental commercial applications. The cross resulting in this new variety was made during January of 2009.

The seed parent is the unpatented, proprietary seedling variety referred to as *Impatiens hawkeri* ‘NG-Z-116’. The pollen parent is the unpatented, proprietary seedling variety referred to as *Impatiens hawkeri* ‘NG-8-7741’. The new variety was discovered in July of 2009 by the inventor in a group of seedlings resulting from the 2009 crossing, in a research greenhouse in Moshav Mishmar Hashiva, Israel.

Asexual reproduction of the new cultivar was performed by leaf cuttings. The cuttings are from an apical bud that has no more than two expanded leaves and three to four immature leaves present. This was first performed at a research greenhouse in Moshav Mishmar Hashiva, Israel in August of 2009 and has shown that the unique features of this cultivar are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

The cultivar ‘DHAR354’ has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, day length, and light intensity, without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of ‘DHAR354’. These characteristics in combination distinguish ‘DHAR354’ as a new and distinct *Impatiens* cultivar:

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1. The flowers have a unique scarlet margin.
2. Large white center.
3. Good Branching.
4. Compact growth habit.

Plants of the new cultivar ‘DHAR354’ are similar to plants of the seed parent, *Impatiens hawkeri* ‘NG-Z-116’ in most horticultural characteristics, however, plants of the new cultivar ‘DHAR354’ produce a wider margin coloration whereas the seed parent has an insignificantly narrow margin. ‘DHAR354’ also has a white center whereas the seed parent has a salmon center. ‘DHAR354’ has a more compact growth form than the seed parent.

Plants of the new cultivar ‘DHAR354’ are similar to plants of the pollen parent *Impatiens hawkeri* ‘NG-8-7741’ in most horticultural characteristics, however, plants of the new cultivar ‘DHAR354’ produce larger flowers and bloom earlier than the pollen parent.

COMMERCIAL COMPARISON

Plants of the new cultivar ‘DHAR354’ are comparable to the variety *Impatiens* ‘DANHAR305’ U.S. Plant Pat. No. 21,306. The two *Impatiens* varieties are similar in most horticultural characteristics; however, the new variety ‘DHAR354’ differs in having larger white center and more vigorous plant growth.

Plants of the new cultivar ‘DHAR354’ can also be compared to the commercial variety *Impatiens* ‘DANHAMAG’ unpatented. These varieties are similar in most horticultural characteristics; however ‘DHAR354’ has a larger white center and is more vigorous.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photograph in FIG. 1 illustrates in full color a typical plant of ‘DHAR354’ grown in a greenhouse, in a 12 cm basket. Age of the plant photographed is approximately 3 months from a rooted cutting.

FIG. 2 illustrates in full color a close up of a typical bloom of 'DHAR354'.

The photographs were taken using conventional techniques and although colors may appear different from actual colors due to light reflectance it is as accurate as possible by conventional photographic techniques.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Colour Chart 2001 except where general terms of ordinary dictionary significance are used. The following observations and measurements describe 'DHAR354' plants grown in a greenhouse, in Moshav Mishmar Hashiva, Israel. The growing temperature ranged from 20° C. to 30° C. during the day and from 15° C. to 20° C. during the night. General light conditions are bright, normal sunlight. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Impatiens hawkeri* 'DHAR354'.

PROPAGATION

Time to initiate roots:

Summer.—About 7 to 10 days at approximately 25° C.

Winter.—About 10 to 14 days at approximately 20° C.

Root description: Fine, adventitious fibrous.

PLANT

Age of plant described: Approximately 84 days from a rooted cutting.

Growth habit: Round and compact very good branching.

Pot size of plant described: 12 cm.

Height: 16 cm.

Plant spread: 30 cm.

Growth rate: Medium.

Branching characteristics: Highly branched.

Length of primary lateral branches: 14 cm.

Quantity of primary lateral branches: 6-8.

Characteristics of primary lateral branches:

Form.—Oval shape.

Diameter.—0.7 cm.

Color.—Greyed Purple Group 183 B RHS.

Texture.—Smooth.

Strength.—Strong, very stable.

Internode length: 3.0-4.0 cm.

FOLIAGE

Leaf:

Arrangement.—Alternate.

Quantity.—Approximately 15-18 per branch.

Average length.—7.0 cm.

Average width.—3.0 cm.

Shape of blade.—Lanceolate to ovate.

Apex.—Attenuate.

Base.—Acuminate.

Margin.—Ciliate.

Texture of top surface.—Smooth.

Pubescence.—None.

Aspect.—45 degrees.

Color.—Young foliage upper side: Green 137 B RHS.

Young foliage under side: Green 138 B RHS. Mature foliage

upper side: Green 147 A RHS. Mature foliage

under side: Green 147 C RHS.

Venation.—Midrib with secondary veins. Pinnate, only lower surface. Type: Pinnate. Venation color upper side: Midrib Greyed Orange group N170 D RHS. Venation color under side: Midrib Greyed Purple Group 184 C RHS. All Lateral Venation: Greyed Red group 178 A.

Petiole.—Length: 1.8 cm. Diameter: 0.5 cm. Color: Greyed purple group 185 C RHS. Texture: Smooth.

FLOWER

Natural flowering season: Flowers at any day length. All year round in a greenhouse environment. Flowering is continuous from spring until fall in an outdoor garden.

Days to flowering from rooted cutting: 9-10 Weeks.

Inflorescence and flower type and habit: Single flowers raised above the foliage. The corolla consists of five petals.

Rate of flower opening: 10 to 15 days from bud to fully opened flower.

Flower longevity on plant: 5-7 days.

Persistent or self-cleaning: Self-Cleaning.

Bud:

Shape.—Ovate.

Length.—2.0 cm.

Diameter.—1.5 cm.

Color.—All of the following colors present individually: Red Group 46 A Red-Purple 58D and Orange-Red 33B.

Flower size:

Diameter.—6.5-7.0 cm.

Depth.—0.3 cm.

Petals:

Quantity.—5.

Arrangement.—Overlapping.

Length.—3.5 cm.

Width.—3.0 cm.

Shape.—Round.

Apex.—Heart Shape.

Base.—Acute.

Margin.—Entire.

Texture, upper and lower surfaces.—Smooth.

Color.—When opening, upper surface: Margin Orange Red Group N30C; Center White Group N155B RHS.

When opening, lower surface: Margin Orange Red Group 32; Center Red Purple Group 62D RHS. Fully opened, upper surface: Margin Orange Red Group N 30 B; Center White Group N155B RHS. Fully opened, lower surface: Margin Red Purple Group 68D; Center N30B RHS.

Spurs:

Quantity per flower.—1.

Length.—5 cm.

Diameter.—0.1 cm.

Aspect.—Spur curvature 40°-45° from peduncle.

Color.—Towards base: Red Group 53C. Apex: Red Group 53A.

Sepals:

Quantity.—2.

Length.—1.5 cm.

Width.—0.5 cm.

Shape (overall).—Oblong. Apex: Acute. Base: Rounded.

Margin.—Entire.

Color.—Yellow Green group 149D.

Peduncles:
 Length.—4-4.5 cm.
 Diameter.—0.1 cm.
 Angle.—About 45° to the lateral branch.
 Strength.—Stable, flexible.
 Texture.—Smooth.
 Color.—Red Group 53A.
Fragrance: None.

REPRODUCTIVE ORGANS

Stamens:
 Number.—There are five stamens with introrse anthers
 that are more or less fused and form a cap over the
 ovary.
Anthers:
 Shape.—Oblong.
 Length.—Approximately 0.5 cm.
 Color.—White group 155D RHS.
 Pollen.—Color: White group 155D RHS. Quantity: 20
 Abundant.

Pistil:
 Number.—1.
 Length.—0.5 cm.
 Style.—Length: 0.4 cm. Color: Yellow Green group
 146CRHS.
 Stigma.—Shape: Round. Color: Light Yellow Green 2D
 RHS. Ovary Color: Yellow-Green group, RHS 144D
 RHS.

OTHER CHARACTERISTICS

Seeds and fruits: 10 to 20 minute dust like seeds present.
Disease/pest resistance: Common to cultivar.
Temperature tolerance: Tolerant at 30° C. and tolerant at 10°
C. degrees Celsius (grows best at 18° C.-25° C.).

What is claimed is:
1. A new and distinct cultivar of *Impatiens* plant named
‘DHAR354’ as herein illustrated and described.

* * * * *



Fig. 1

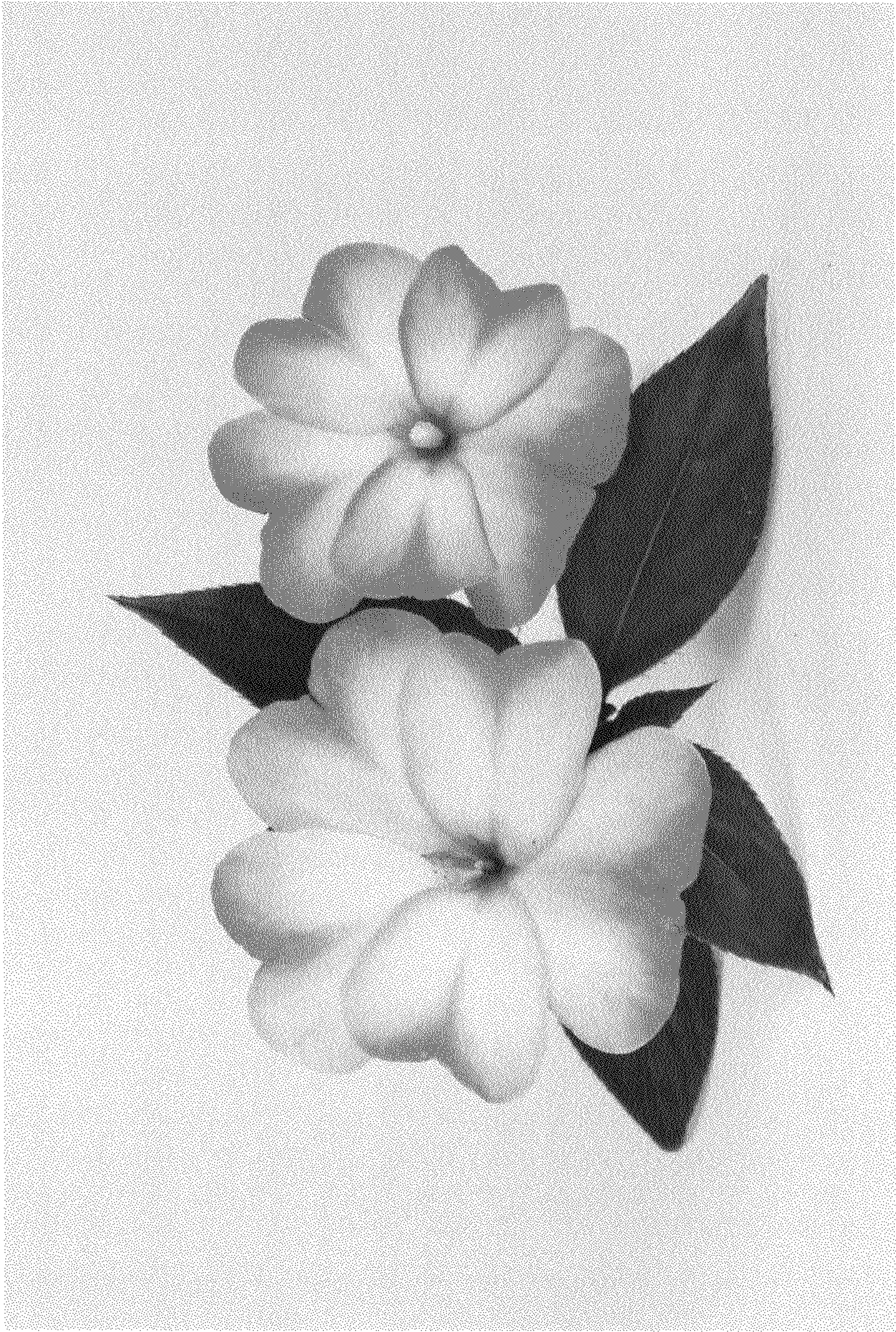


Fig. 2