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

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(54) **IMPATIENS PLANT NAMED ‘DANCEL844’**

(50) Latin Name: *Impatiens hawkeri*  
Varietal Denomination: **DANCEL844**

(75) Inventor: **Gavriel Danziger**, Moshav Nir-Zvi (IL)

(73) Assignee: **Danziger - “Dan” Flower Farm**,  
Moshav Mishmar Hashiva (IL)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(52) **U.S. Cl.** ..... **Plt./317**

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See application file for complete search history.

*Primary Examiner*—Susan B McCormick Ewoldt

(74) *Attorney, Agent, or Firm*—Audrey Charles

(57) **ABSTRACT**

A new and distinct cultivar of *Impatiens* plant named ‘DANCEL844’, characterized by its medium lavender-colored flowers, dark green-colored foliage, and moderately vigorous, compact-mounded growth habit, is disclosed.

**1 Drawing Sheet**

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Latin name of genus and species of plant claimed: *Impatiens hawkeri*.

Variety denomination: ‘DANCEL844’.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar of *Impatiens* plant botanically known as *Impatiens hawkeri* and hereinafter referred to by the cultivar name ‘DANCEL844’.

The new cultivar originated in a controlled breeding program in Moshav Mishmar Hashiva, Israel during December 2004. The objective of the breeding program was the development of *Impatiens* cultivars with numerous large flowers, excellent basal branching, and a compact-mounded growth habit.

The new *Impatiens* cultivar is the result of cross-pollination. The female (seed) parent of the new cultivar is the proprietary *Impatiens hawkeri* breeding selection designated NG-4-1288, not patented, characterized by its medium violet-colored flowers, medium green-colored foliage, and moderately vigorous, compact-mounded growth habit. The male (pollen) parent of the new cultivar is the proprietary *Impatiens hawkeri* breeding selection designated A-608, not patented, characterized by its medium lavender-colored flowers, medium green-colored foliage, and moderately vigorous, compact-mounded growth habit. The new cultivar was discovered and selected as a single flowering plant within the progeny of the above stated cross-pollination during July 2005 in a controlled environment at Moshav Mishmar Hashiva, Israel.

Asexual reproduction of the new cultivar by terminal stem cuttings since July 2005 at Moshav Mishmar Hashiva, Israel and West Chicago, Ill. has demonstrated that the new cultivar reproduces true to type with all of the characteristics, as herein described, firmly fixed and retained through successive generations of such asexual propagation.

**SUMMARY OF THE INVENTION**

The following characteristics of the new cultivar have been repeatedly observed and can be used to distinguish ‘DANCEL844’ as a new and distinct cultivar of *Impatiens* plant:

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1. Medium lavender-colored flowers;
2. Dark green-colored foliage; and
3. Moderately vigorous, compact-mounded growth habit.

Plants of the new cultivar differ from plants of the female parent primarily in flower color and flower size. The new cultivar has a lighter flower color and larger flowers than plants of the female parent. Plants of the new cultivar differ from plants of the male parent primarily in flower color and vigor. The new cultivar has a slightly lighter flower color and is slightly more vigorous than plants of the male parent.

Of the many commercially available *Impatiens* cultivars, the most similar in comparison to the new cultivar is HARMONY Dark Lilac ‘Danhardalil’, U.S. Plant Pat. No. 16,768. However, in side by side comparisons, plants of the new cultivar differ from plants of ‘Danhardalil’ in at least the following characteristics:

1. Plants of the new cultivar have a flower color different from plants of ‘Danhardalil’;
2. Plants of the new cultivar have a foliage venation color different from plants of ‘Danhardalil’; and
3. Plants of the new cultivar have a petiole color different from plants of ‘Danhardalil’.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying photographs show, as nearly true as it is reasonably possible to make the same in color illustrations of this type, typical flower and foliage characteristics of the new cultivar. Colors in the photographs differ slightly from the color values cited in the detailed description, which accurately describes the colors of ‘DANCEL844’. The plants were grown in 4.5 inch pots for 10 weeks in a greenhouse at West Chicago, Ill.

FIG. 1 illustrates a side view of the overall growth and flowering habit of ‘DANCEL844’.

FIG. 2 illustrates a close-up view of an individual flower of ‘DANCEL844’.

**DETAILED BOTANICAL DESCRIPTION**

The new cultivar has not been observed under all possible environmental conditions to date. Accordingly, it is possible that the phenotype may vary somewhat with variations in the

environment, such as temperature, light intensity, and day length, without, however, any variance in genotype.

The chart used in the identification of colors described herein is The R.H.S. Colour Chart of The Royal Horticultural Society, London, England, 2001 edition, except where general color terms of ordinary significance are used. The color values were determined in June 2009 under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe plants produced from cuttings from stock plants and grown in a glass-covered greenhouse under conditions comparable to those used in commercial practice. The plants were grown at West Chicago, Ill. in 4.5 inch pots for 10 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 70° F. to 77° F. (21° C. to 25° C.) during the day and approximately 65° F. to 68° F. (18° C. to 20° C.) during the night. Greenhouse light levels of 2,500 footcandles to 6,000 footcandles were maintained during the day. Measurements and numerical values represent averages of typical plants.

Botanical classification: *Impatiens hawkeri* cultivar DAN-CEL844.

Parentage:

*Female parent.*—Proprietary *Impatiens hawkeri* breeding selection designated NG-4-1288, not patented.

*Male parent.*—Proprietary *Impatiens hawkeri* breeding selection designated A-608, not patented.

Propagation:

*Type cutting.*—Terminal stem.

*Time to initiate roots.*—Approximately 7 to 8 days.

*Time to produce a rooted cutting.*—Approximately 21 to 24 days.

*Root description.*—Fibrous.

*Rooting habit.*—Freely branching.

Plant description:

*Commercial crop time.*—Approximately 6 to 8 weeks from a rooted cutting to finish in a 10 cm pot.

*Growth habit and general appearance.*—Moderately vigorous, compact, and mounded growth habit.

*Size.*—Height from soil level to top of plant plane: Approximately 14.8 cm. Width: Approximately 26.0 cm.

*Branching habit.*—Freely basal branching. Quantity of main branches per plant: Approximately 6.

*Branch.*—Strength: Strong. Length: Approximately 10.3 cm. Diameter at central internode: Approximately 5.0 mm. Length of central internode: Approximately 1.6 cm. Texture: Glabrous. Color of young and mature stem: 144A.

Foliage description:

*General description.*—Quantity of leaves per main branch: Approximately 9. Fragrance: None. Form: Simple. Arrangement: In whorls of 3 to 5 leaves.

*Leaves.*—Aspect: Petiole is at an acute angle to stem and leaf blade is perpendicular to stem. Shape: Elliptic. Margin: Serrate, ciliate. Apex: Acuminate. Base: Attenuate. Venation pattern: Pinnate. Length of mature leaf at center of stem: Approximately 8.7 cm. Width of mature leaf at center of stem: Approximately 3.6 cm. Texture of upper surface: Glabrous. Texture of lower surface: Sparsely pubescent on venation. Color of upper surface of young foliage: Closest to 139A with venation of 145C. Color of lower surface of young foliage: 138B with venation of 145D. Color of upper surface of mature foliage: Closest to 139A with

venation of 145C and a faint overlay of 185C at leaf base. Color of lower surface of mature foliage: 138B with venation of 145D and a faint overlay of 185D at leaf base.

*Petiole.*—Length: Approximately 2.3 cm. Diameter: Approximately 3.0 mm. Texture: Glabrous. Color: 145C with an overlay of 185A.

Flowering Description:

*Flowering habit.*—‘DANCEL844’ is freely flowering under outdoor growing conditions with substantially continuous blooming from spring through autumn and year-round in greenhouse environment.

*Lastingness of individual flower on the plant.*—Approximately 5 to 7 days.

Flower description:

*General description.*—Type: Single. Quantity per plant: Approximately 14. Fragrance: None.

*Bud.*—Rate of opening: Generally takes 3 to 4 days for bud to progress from first color to fully open flower. Quantity showing color per plant: Approximately 4.

*Bud just before opening.*—Shape: Ovoid. Length: Approximately 2.1 cm. Diameter: Approximately 1.5 cm. Color: N74C.

*Corolla.*—Shape: Round, cupped when first open with petals turning downward with age. Width: Approximately 7.0 cm. Depth: Approximately 2.0 cm. Borne: Above and below foliage.

*Petals.*—Quantity: 5. Shape: Obovate. Aspect: Flat. Appearance: Iridescent. Margin: Entire. Apex: Emarginate. Base of upper petal: Truncate. Base of lateral and lower petals: Attenuate. Length of upper petal: Approximately 3.1 cm. Width of upper petal: Approximately 5.0 cm. Length of lateral petals: Approximately 3.5 cm. Width of lateral petals: Approximately 3.5 cm. Length of lower petals: Approximately 3.9 cm. Width of lower petals: Approximately 4.6 cm. Texture of upper and lower surfaces: Glabrous. Color of upper surface when first open: Between N78A and N78B with an “eye” of 69D. Color of lower surface when first and fully open: Between N78B and N78C. Color of upper surface when fully open: N78B with an “eye” of 69D; with age upper petal develops a central stripe of 69D.

*Spur.*—Quantity: 1 per flower. Length: Approximately 5.0 cm. Diameter at proximal end: Approximately 2.0 mm. Diameter at distal end: Approximately 1.0 mm. Texture: Glabrous. Color: 145D with tip of 144B.

*Peduncle.*—Strength: Strong. Aspect: Acute angle to stem. Length: Approximately 4.7 cm. Diameter: Approximately 2.0 mm. Texture: Glabrous. Color: 145B.

*Sepals.*—Quantity per flower: 4 with one fused to base of upper petal. Shape of lateral sepals: Ovate. Shape of lower sepal: Ovate. Apex of all sepals: Acuminate. Length of lateral sepals: Approximately 1.5 cm. Width of lateral sepals: Approximately 6.0 mm. Length of lower sepal: Approximately 1.9 cm. Width of lower sepal: Approximately 1.4 cm. Texture of upper and lower surfaces of all sepals: Glabrous. Color of upper and lower surfaces of lateral sepals: 144D with 144A at tip. Color of upper and lower surfaces of lower sepal: Pure white blushed with N78C and 144A at tip.

*Reproductive organs.*—Androecium: Stamen quantity: 5 per flower, fused around pistil at apex. Anther shape:

Hooded. Anther length: Approximately 2.0 mm. Anther color: 158D. Filament color: 155D with a faint overlay of N78D. Pollen amount: Abundant. Pollen color: 155D. Gynoecium: Pistil quantity: 1 per flower. Pistil length: Approximately 5.0 mm. Stigma shape: 5-pointed star. Stigma color: Colorless, transparent. Style color: 144A. Ovary texture: Glabrous. Ovary color: 144A.

Seed and fruit production: Neither seed nor fruit production has been observed.

Disease and pest resistance: Resistance to pathogens and pests common to *Impatiens* has not been observed.

What is claimed is:

1. A new and distinct cultivar of *Impatiens* plant named 'DANCEL844', substantially as herein shown and described.



FIG. 1

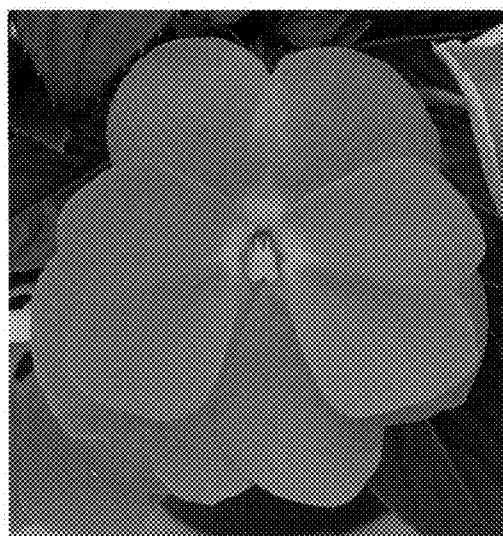


FIG. 2