



(12) **United States Plant Patent**
Chou et al.

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

(50) Latin Name: *Impatiens walleriana*×*auricom*
Varietal Denomination: **Balfusheat**

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patent is extended or adjusted under 35
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(57) **ABSTRACT**

A new and distinct cultivar of *Impatiens* plant named
‘Balfusheat’, characterized by its single, cupped red-colored
flowers, medium green-colored foliage, upright and
mounded growth habit, and excellent basal branching.

1 Drawing Sheet

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Latin name of genus and species of plant claimed: *Impa-*
tiens walleriana×*auricom*.

Variety denomination: ‘Balfusheat’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct *Impa-*
tiens plant botanically known as *Impatiens walleriana*×
auricom and hereinafter referred to by the cultivar name
‘Balfusheat’.

The new cultivar was developed by the inventors in a
controlled breeding program during March 1999 at Elburn,
Ill. The objective of the breeding program was to develop
Impatiens cultivars with numerous flowers, new and unique
flower shape and colors, excellent basal branching and
upright compact to moderate growth habit.

The female (seed) parent of ‘Balfusheat’ was the propri-
etary *Impatiens walleriana* selection designated ‘12660’
(not patented) characterized by its upright growth habit,
white-colored flowers, and medium green-colored foliage.
The male (pollen) parent of ‘Balfusheat’ was the proprietary
Impatiens auricom selection designated ‘10449-1-2’ (not
patented) characterized by its upright growth habit, yellow-
colored flowers, and medium green-colored foliage. ‘Bal-
fusheat’ was discovered and selected as a single flowering
plant within the progeny of the above stated cross in
February of 2000 at Elburn, Ill. and initially designated PAS
‘1-18’.

Asexual reproduction of the new cultivar by shoot tip or
stem cuttings taken since February 2000 at Elburn, Ill. and
West Chicago, Ill., has demonstrated that the new cultivar
reproduces true to type with all the characteristics, as herein
described, firmly fixed and retained through successive
generations of such asexual propagation.

SUMMARY OF THE INVENTION

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.

It was repeatedly found that the cultivar of the present
invention:

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1. Exhibits single, slightly cupped, red-colored flowers,
2. Forms medium green-colored foliage,
3. Exhibits a medium, upright and mounded growth habit,
and

4. Exhibits a good basal branching character.

Plants of the new cultivar differ from plants of the female
parent primarily in flower color, flower shape and leaf shape
and from plants of the male parent primarily in flower color,
flower shape, leaf size and branching habit.

Plants of the new cultivar can be compared to ‘Balfus-
inred’ disclosed in U.S. Plant patent application Ser. No.
10/741,994. ‘Balfusinred’ and ‘Balfusheat’ were derived
from crossing the same two cultivars, however, they exhibit
very different flower colors.

Plants of the new cultivar can be compared to plants of
‘96-009-4’ (U.S. Plant Pat. No. 10,973). In a side-by-side
comparison conducted in West Chicago, Ill., plants of the
new cultivar differed from plants of ‘96-009-4’ primarily in
the following characteristics:

1. Plants of the new cultivar have a more compact growth
habit than plants of ‘96-009-4’, and
2. Plants of the new cultivar have larger flowers than
plants of ‘96-009-4’.

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 describe the colors of ‘Balfusheat’. The plants
were grown for 13 weeks in a greenhouse at West Chicago,
Ill.

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

FIG. 2 illustrates a close-up view of a single flower of
‘Balfusheat’.

DETAILED DESCRIPTION

The chart used in the identification of colors described
herein is The R.H.S. Colour Chart of The Royal Horticul-
tural Society, London, England, 1995 edition, except where

general color terms of ordinary significance are used. The color values were determined on Sep. 3, 2003 between 9:00 and 10:45 a.m. under natural light conditions.

The following measurements and comparisons describe plants produced from shoot tip or stem cuttings taken from stock plants and grown under greenhouse conditions comparable to those used in commercial practice in West Chicago, Ill. The plants were grown in 10 cm pots for 15 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 72° F. during the day and approximately 65° F. during the night. Greenhouse light levels were maintained at approximately 4,000–6,000 footcandles during the day.

Botanical classification: *Impatiens walleriana* × *auricomma* cultivar ‘Balfusheat’.

Parentage:

Female (seed) parent.—Proprietary *Impatiens walleriana* selection designated ‘12660’ (not patented).

Male (pollen) parent.—Proprietary *Impatiens auricomma* selection designated ‘10449-1-2’ (not patented).

Propagation:

Type cutting.—Shoot tip or stem (with two nodes).

Time to initiate roots.—Approximately 7–14 days.

Time to develop a rooted cutting.—Approximately 21 days.

Root description.—Fine, fibrous.

Rooting habit.—Freely branching.

Plant description:

Habit of growth.—Moderately vigorous with good basal branching. A mature plant, 15 weeks after the planting of a rooted cutting, commonly measures approximately 20.8 cm in height and approximately 33.6 cm in width.

Plant form.—Upright and mounded.

Lateral branches.—Quantity: Approximately 3. Length: Approximately 15 cm. Diameter: Approximately 6.6 mm. Texture: Glabrous. Color: 145A with slight overlay of 45A. Internode length at center of branch: Approximately 2.9 cm.

Foliage.—Type: Simple. Arrangement of lower leaves: Alternate. Arrangement of upper leaves: Whorls. Shape: Elliptic. Apex: Acuminate/cuspidate. Base: Attenuate. Margin: Crenate with ciliation. Texture of upper and lower surface: Glabrous. Venation pattern: Pinnate, arcuate. Size of mature foliage: Length: Approximately 7.5 cm. Width: Approximately 4 cm. Color of mature foliage: Upper surface is 137A, with veins and mid-vein of 144A. Lower surface is slightly lighter than 147B with veins and mid-vein of 144A. Petiole: Diameter: Approximately 3 mm. Length: Approximately 1.7 cm with 2 mm stipules along edges. Texture: Upper and lower surface: Glabrous. Color: Upper and lower surface: 144A.

Flower description:

Flower type.—Single, not fragrant with self-cleaning petals.

Flowering habit.—Freely flowering with flowers positioned above the foliage and facing outward.

Natural flowering season.—Year round in greenhouse environment. Flowering is continuous from spring until fall in the garden.

Flower longevity on plant.—Approximately 5 days.

Quantity of flowers.—Approximately 13 flowers and 6 buds per stem at any one time.

Mature flower buds (just before opening).—Shape: Ovate. Length: Approximately 1.3 cm. Diameter:

Approximately 7.7 mm. Texture: Glabrous. Color: 31C.

Flower shape.—Oval, cupped when first open becoming more flat with age.

Flower size.—Length: Approximately 3.3 cm. Width: Approximately 2.7 cm. Depth: Approximately 1.2 cm.

Petals.—Number: Five per flower. All petals: Texture: Glabrous. Appearance: Iridescent.

Superior petal.—Length: Approximately 1.4 cm. Width: Approximately 1.1 cm. Shape: Cucullate. Margin: Entire. Apex: Emarginate. Base: Truncate. Color of upper surface: 47C. Color of lower surface: 43D with base of N155C.

Lateral petals.—Length: 1.5 cm. Width: 1.3 cm. Shape: Obovate. Margin: Entire. Apex: Obtuse. Base: Attenuate. Color of upper surface: 47C. Color of lower surface: Margin of 43C with mid-rib of 13C and base of 13D.

Lower petals.—Length: 2 cm. Width: 1.2 cm. Shape: Obovate. Margin: Entire. Apex: Obtuse. Base: Attenuate. Color of upper surface: 46C with center of petal having a small area of 46A. Color of lower surface: 46D with base of 13D.

Peduncles.—Strength: Strong. Angle to stem: Acute. Length: Approximately 2.7 cm. Diameter: Approximately 1 mm. Texture: Glabrous. Color: 144B.

Calyx.—Consists of 3 sepals. Lateral sepals: Length: Approximately 1 cm. Width: Approximately 5 mm. Apex: Acute. Texture of both surfaces: Glabrous. Color of both surfaces: 150D with tip of 145B. Lower sepal: Length: Approximately 1.6 cm. Width: Approximately 9 mm. Apex: Acute. Texture of both surfaces: Glabrous. Color of both surfaces: 150D with tip of 145B. Base of lower sepal is modified to form spur.

Spur.—Quantity: One per flower. Double tipped. Length: Approximately 1.5 cm. Diameter at flower: Approximately 2 mm. Diameter of tips: Approximately 1 mm. Aspect: Moderately curved downward. Texture: Glabrous. Color: 150D with tips of 145B.

Reproductive organs.—Androecium: Five stamens, anthers are fused together forming one organ that surrounds the pistil. Filament color: 13C. Anther shape: Hooded. Anther length: Approximately 1 mm. Anther color: 75A. Pollen: None observed. Gynoecium: Pistil number: One per flower. Pistil length: 6 mm. Stigma shape: Five pointed star. Stigma length: 1.5 mm. Stigma color: Colorless, translucent. Style length: 1.5. Style color: Colorless, translucent. Ovary length: 4 mm. Ovary diameter: 2 mm. Ovary texture: Glabrous. Ovary color: 149A.

Seed and fruit development: 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 ‘Balfusheat’ substantially as herein shown and described, which:

1. Exhibits single, cupped, red-colored flowers,
2. Forms medium green-colored foliage,
3. Exhibits a good basal branching character, and
4. Exhibits an upright and mounded growth habit.

FIG. 1



FIG. 2

