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Klemm

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

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patent is extended or adjusted under 35
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(51) **Int. Cl.**⁷ **A01H 5/00**

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(58) **Field of Search** Plt./318

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(57) **ABSTRACT**

A new and distinct cultivar of New Guinea Impatiens plant
named 'Monaco', characterized by its large rounded pink
and purple bi-colored flowers; freely flowering habit with
flowers positioned above or beyond the foliage; compact,
mounded and outwardly spreading plant habit; freely
branching growth habit; dark green-colored leaves; and
good weather tolerance.

1 Drawing Sheet

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BOTANICAL CLASSIFICATION

Impatiens hawkeri cultivar Monaco.

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct culti-
var of New Guinea Impatiens plant, botanically known as
Impatiens hawkeri, and hereinafter referred to by the cultivar
name Monaco.

The new Impatiens is a product of a planned breeding
program conducted by the Inventor in Stuttgart, Germany.
The objective of the breeding program is to develop new
freely branching Impatiens cultivars with compact plant
habit, numerous flowers and interesting flower and foliage
colors.

The new Impatiens originated from a cross made by the
Inventor during the fall of 1996 of a proprietary *Impatiens*
hawkeri selection identified as code number A 70, not
patented, as the female, or seed parent, with a proprietary
Impatiens hawkeri selection identified as code number O
024, not patented, as the male, or pollen parent. The cultivar
Monaco was discovered and selected by the Inventor as a
flowering plant within the progeny of the stated cross in
controlled environment in Stuttgart, Germany, in May, 1997.

Asexual reproduction of the new cultivar by terminal
cuttings taken at Stuttgart, Germany, since July, 1997, has
shown that the unique features of this new Impatiens are
stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and
are determined to be the unique characteristics of 'Monaco'.
These characteristics in combination distinguish 'Monaco'
as a new Impatiens cultivar and distinguish it from other
known Impatiens cultivars:

1. Large rounded pink and purple bi-colored flowers.
2. Freely flowering habit with flowers positioned above or
beyond the foliage.
3. Compact, mounded and outwardly spreading plant
habit.
4. Freely branching growth habit.

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5. Dark green-colored leaves.

6. Good weather tolerance.

Plants of the new Impatiens differ from plants of the
parent selections primarily in plant growth habit, leaf color
and flower color.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the
overall appearance of the new cultivar, showing the colors as
true as it is reasonably possible to obtain in colored repro-
ductions of this type. Colors in the photograph may differ
slightly from the color values cited in the detailed botanical
description which accurately describe the colors of the new
Impatiens. The photograph comprises a side perspective
view of a typical flowering plant of 'Monaco' grown during
the fall and winter in Stuttgart, Germany, in a 12-cm
container for about 14 weeks after planting a rooted cutting.

DETAILED BOTANICAL DESCRIPTION

The cultivar Monaco has not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as
temperature, light intensity, daylength, water status and/or
fertilizer type or rate, without, however, any variance in
genotype. The following observations and measurements
describe plants grown in Stuttgart, Germany during the fall
and winter, under commercial practice in a glass-covered
greenhouse. Plants used in the following description were
grown in 12-cm containers for about 14 weeks after planting
rooted cuttings. During the production period, day and night
temperatures ranged from 20 to 22° C. In the following
description, color references are made to The Royal Horti-
cultural Society Colour Chart except where general terms of
ordinary dictionary significance are used.

Botanical classification: *Impatiens hawkeri* cultivar
Monaco.

Commercial classification: New Guinea Impatiens cultivar
Monaco.

Parentage:

Female parent.—Proprietary *Impatiens hawkeri* selection identified as code number A 70, not patented.

Male parent.—Proprietary *Impatiens hawkeri* selection identified as code number O 024, not patented.

Propagation:

Type cutting.—Terminal cuttings.

Time to initiate roots.—About 11 days at 20° C.

Time to produce a rooted cutting.—About 21 days at 20° C.

Root description.—Numerous, cream-white, fibrous and freely branching.

Plant description:

General appearance.—Compact, mounded and outwardly spreading plant habit.

Growth and branching habit.—Freely branching, about 5 lateral branches per plant develop without pinching, that is, removal of the terminal apices. Moderately vigorous growth habit; densely foliated.

Crop time.—To produce a finished flowering plant in a 12-cm container: About 13 weeks from a rooted cutting.

Plant height.—About 15 cm.

Plant spread.—About 33 cm.

Lateral branch description.—Length: About 8 cm. Diameter: About 6 mm. Internode length: About 3 cm. Texture: Smooth, glabrous. Color: 182B.

Foliage description.—Arrangement: Opposite or in whorls. Length, mature leaves: About 12.5 cm. Width, mature leaves: About 4 cm. Shape: Lanceolate, oblong. Apex: Acuminate. Base: Attenuate. Margin: Serrulate with fine ciliation. Texture, both surfaces: Smooth, glabrous, leathery. Venation pattern: Pinnate. Color: Young foliage, upper surface: 147A, glossy. Young foliage, lower surface: 181A. Fully expanded foliage, upper surface: Closest to 139A, glossy. Fully expanded foliage, lower surface: 181A with irregular and random spots, 193B. Venation, upper surface: 185B. Venation, lower surface: 187D. Petiole: Length: About 3 cm. Diameter: About 3 mm. Texture, both surfaces: Smooth, glabrous. Color, both surfaces: 185B.

Flower description:

Flower type and flowering habit.—Single, large and rounded pink and purple bi-colored flowers. Freely flowering, usually about 5 flowers and flower buds per lateral branch. Flowers positioned above and beyond the foliage and typically face upward or outward. Flowers flat when fully opened. Flowers last about 10 to 14 days on the plant depending on environmental conditions. Petals self-cleaning;

gynoecium persistent. Flowers not fragrant. Flowering indeterminate and continuous.

Flowering season.—Year-round under greenhouse conditions. In the garden, flowering from spring until fall.

Flower length.—About 6.3 cm.

Flower width.—About 6.4 cm.

Flower depth (thickness).—About 1.4 cm.

Flower buds.—Rate of opening: From flower bud to fully open flower, typically about 5 to 7 days depending on temperature. Length: About 1.7 cm. Diameter: About 9 mm. Shape: Ovoid. Texture: Smooth, glabrous. Color, just before opening: 67A.

Petals.—Quantity: Five per flower, imbricate. Length: Banner petal: About 2.6 cm. Lateral petals: About 3.2 cm. Lower petals: About 3.5 cm. Width: Banner petal: About 4.5 cm. Lateral petals: About 3 cm. Lower petals: About 3.7 cm. Shape: Roughly cordate. Apex: Emarginate. Base: Rounded to acute. Margin: Entire. Texture: Smooth; satiny. Color: When opening, upper surface: Ground color, 81D; center, 57A. When opening, lower surface: Ground color, 82D; center, 66A. Fully opened, upper surface: Ground color, 81D; center, 57A. Fully opened, lower surface: Ground color, 77D; center, 66B.

Spur.—Length: About 5.5 cm. Diameter: At flower: About 2 mm. At apex: About 0.6 mm. Texture: Smooth, glabrous. Color: 150C.

Peduncles.—Length: About 6 cm. Diameter: About 1.5 mm. Strength: Strong, flexible. Aspect: About 45° from the stem. Texture: Smooth, glabrous. Color: 150C.

Reproductive organs.—Androecium: Stamen number: Five fused at anthers, filaments free, hooded. Anther shape: Obovate. Anther length: About 4 mm. Anther width: About 3 mm. Anther color: 66A. Amount of pollen: Abundant. Pollen color: 157A. Gynoecium: Pistil number: One. Pistil length: About 6 mm. Stigma shape: Columnar, five-segmented. Stigma color: 74B. Style color: 74B. Ovary color: 184A.

Seed development.—Seed development has not been observed.

Disease/pest resistance: Plants of the new *Impatiens* have not been observed to be resistant to pathogens or pests common to *Impatiens*.

Weather tolerance: In Stuttgart, Germany, plants of the new *Impatiens* have been observed to be tolerant to wind and rain and tolerate temperatures from 12 to 30° C.

It is claimed:

1. A new and distinct cultivar of New Guinea *Impatiens* plant named 'Monaco', as illustrated and described.

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