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

(50) Latin Name: ***Impatiens×hybrida***
Varietal Denomination: **DUESSPMAGEN**

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(57) **ABSTRACT**

A new and distinct cultivar of *Impatiens* plant named 'Duesspmagen' characterized by its upright, outwardly spreading and mounding plant habit; vigorous growth habit; freely branching habit; dark green-colored leaves; early and freely flowering habit; magenta-colored flowers; and good garden performance.

1 Drawing Sheet

Botanical designation: *Impatiens×hybrida.*
Cultivar denomination: 'DUESSPMAGEN'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of New Guinea *Impatiens* plant, botanically known as *Impatiens×hybrida* and hereinafter referred to by the name 'Duesspmagen'.

The new *Impatiens* plant is a product of a planned breeding program conducted by the Inventor in Encinitas, Calif. The objective of the breeding program is to create new uniform *Impatiens* plants with numerous attractive flowers and good garden performance.

The new *Impatiens* plant is a naturally-occurring whole plant mutation of a proprietary selection of *Impatiens× hybrida* identified as code number NN-0029-X0003, not patented. The new *Impatiens* plant was discovered and selected by the Inventor as a single flowering plant from within a population of plants of the parent selection in a controlled greenhouse environment in Encinitas, Calif. on Apr. 8, 2015.

Asexual reproduction of the new *Impatiens* plant by terminal vegetative cuttings in a controlled greenhouse environment in Encinitas, Calif. since Jun. 9, 2015 has shown that the unique features of this new *Impatiens* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Impatiens* have not been observed under all possible combinations of environmental conditions and cultural practices. The phenotype may vary somewhat with variations in environmental conditions such as temperature 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

'Duesspmagen'. These characteristics in combination distinguish 'Duesspmagen' as a new and distinct *Impatiens* plant:

1. Upright, outwardly spreading and mounding plant habit.
2. Vigorous growth habit.
3. Freely branching habit.
4. Dark green-colored leaves.
5. Early and freely flowering habit.
6. Magenta-colored flowers.
7. Good garden performance.

Plants of the new *Impatiens* can be compared to plants of the parent selection. Plants of the new *Impatiens* differ primarily from plants of the parent selection in flower color as plants of the parent selection have dark coral-colored flowers.

Plants of the new *Impatiens* can be compared to plants of *Impatiens×hybrida* 'SAKIMP025', disclosed in U.S. Plant Pat. No. 24,675. In side-by-side comparisons conducted in Encinitas, Calif., plants of the new *Impatiens* differed primarily from plants of 'SAKIMP025' in the following characteristics:

1. Plants of the new *Impatiens* were more compact than plants of 'SAKIMP025'.
2. Plants of the new *Impatiens* and 'SAKIMP025' differed in leaf color as plants of 'SAKIMP025' have lighter green-colored leaves.
3. Plants of the new *Impatiens* and 'SAKIMP025' differed in flower color as plants of 'SAKIMP025' have orange-colored flowers.

Plants of the new *Impatiens* can also be compared to plants of *Impatiens×hybrida* 'SAKIMP008', disclosed in U.S. Plant Pat. No. 21,014. In side-by-side comparisons conducted in Encinitas, Calif., plants of the new *Impatiens* differed primarily from plants of 'SAKIMP008' in the following characteristics:

1. Plants of the new *Impatiens* were more compact than plants of 'SAKIMP008'.

2. Plants of the new *Impatiens* and 'SAKIMP008' differed in flower color as plants of 'SAKIMP008' have salmon orange-colored flowers.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new *Impatiens* plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Impatiens* plant.

The photograph at the bottom of the sheet is a side perspective view of a typical flowering plant of 'Duesspmagen' grown in a container.

The photograph at the top of the sheet is a close-up view of a typical flowering plant of 'Duesspmagen'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations, measurements and values describe plants grown during the winter and spring in one-gallon containers in a polyethylene-covered greenhouse in Encinitas, Calif. and under cultural practices typical of commercial New Guinea *Impatiens* production. During the production of the plants, day temperatures averaged 26° C., night temperatures averaged 18° C. and light levels ranged from 2,500 to 4,000 foot-candles. Plants were 20 weeks old when the photographs and description were taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2007 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Impatiens×hybrida* 'Duesspmagen'.

Parentage: Naturally-occurring whole plant mutation of a proprietary selection of *Impatiens×hybrida* identified as code number NN-0029-X0003, not patented.

Propagation:

Type.—By terminal cuttings.

Time to initiate roots, summer and winter.—About five to seven days at day temperatures about 27° C. and night temperatures about 20° C.

Time to produce a rooted young plant, summer and winter.—About three weeks at day temperatures about 27° C. and night temperatures about 20° C.

Root description.—Fine, fibrous; typically white in color, actual color of the roots is dependent on substrate composition, water quality, fertilizer type and formulation, substrate temperature and physiological age of roots.

Rooting habit.—Freely branching; dense.

Plant description:

Plant and growth habit.—Upright to outwardly spreading and mounding plant habit; freely branching habit with about five primary branches each with about four to six lateral branches developing per plant; vigorous growth habit; moderately rapid growth rate.

Plant height.—About 25 cm to 27 cm.

Plant diameter.—About 54 cm.

Lateral branch description:

Length.—Variable, longest branches are about 27 cm.

Diameter.—About 1 cm.

Internode length.—About 8 cm.

Strength.—Strong.

Aspect.—About 20° to 45° from vertical.

Texture and luster.—Smooth, sparsely pubescent; moderately glossy.

Color, developing.—Close to 187B; at internodes, close to 187B.

Color, developed.—Close to 183A.

Leaf description:

Arrangement.—Opposite or in whorls; simple.

Length.—About 7.7 cm.

Width.—About 4 cm.

Shape.—Elliptical.

Apex.—Acuminate.

Base.—Attenuate.

Margin.—Entire with ciliation.

Texture and luster, upper and lower surfaces.—Smooth, sparsely pubescent; matte.

Venation pattern.—Pinnate; arcuate.

Color.—Developing leaves, upper surface: Close to N137A. Developing leaves, lower surface: Close to N199A. Fully opened leaves, upper surface: Darker than 147A; venation, close to 185A to 185B. Fully opened leaves, lower surface: Close to 148A; venation, close to 183A.

Petioles.—Length: About 2.2 cm. Diameter: About 3 mm. Strength: Moderately strong. Texture and luster, upper and lower surfaces: Smooth, glabrous; semi-glossy. Color, upper and lower surfaces: Close to 183C.

Flower description:

Flower type and flowering habit.—Single rounded and flat axillary flowers; freely flowering habit, typically about 140 flowers developing per plant during the flowering season; flowers positioned just above and beyond the foliar plane, flowers typically face mostly upright to outwardly.

Flower longevity.—Flowers typically last about two to three days on the plant under greenhouse conditions; petals self-cleaning, gynoecium persistent.

Fragrance.—None detected.

Natural flowering season.—In the garden, flowering from spring until fall in temperate regions; early flowering habit, plants typically begin flowering about nine weeks after planting.

Flower buds.—Length: About 1.8 cm. Diameter: About 1.6 cm. Shape: Ovoid, pointed. Texture and luster: Smooth, glabrous; slightly glossy. Color: Close to 61B.

Flower diameter.—About 5 cm by 5.1 cm.

Flower depth.—About 1.7 cm; including sepal spur, about 4 cm.

Petals.—Quantity and arrangement: Five per flower in a single whorl; one upper banner petal, two lateral petals and two lower petals. Length, banner petal: About 2.2 cm. Width, banner petal: About 3 cm. Length, lateral petals: About 2.2 cm. Width, lateral petals: About 2.2 cm. Length, lower petals: About 3 cm. Width, lower petals: About 2.2 cm. Shape: Cordate. Apex: Cordate; emarginate. Base: Attenuate. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening, upper surface: Brighter than 46A. When opening, lower surface: Close to 58A. Fully opened, upper surface: Brighter than N57A; basal central stripe tinted with close to 42A; towards the base, close to 60B; venation, close to 57A; color

does not change with development. Fully opened, lower surface: Close to 63A; venation, close to 60B; color does not change with development.

Sepals.—Quantity and arrangement: Three in a single whorl; one modified into an elongated spur. Length: About 1 cm. Width: About 4 mm. Shape: Elliptical. Apex: Acuminate. Base: Truncate. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; matte. Color: When developing, upper surface: Close to 71B; towards the margins, close to 70B. When developing, lower surface: Close to 60D; towards the margins, close to 75A. Fully opened, upper and lower surfaces: Close to 60D; towards the margins, close to 75A. Spur length: About 5.3 cm. Spur diameter: At the flower, about 2 mm. Spur texture and luster: Smooth, glabrous; moderately glossy. Spur color: Close to 53A.

Peduncles.—Length: About 4.4 cm. Diameter: About 2 mm. Angle: About 45° to 55° from stem axis. Strength: Strong; flexible. Texture and luster: Smooth, sparsely pubescent; slightly glossy. Color: Close to 60A.

Reproductive organs.—Stamens: Quantity: Five fused at anthers; filaments free. Filament length: About 1 mm. Filament color: Close to 58A. Anther size: About 3 mm by 4 mm. Anther shape: Oblong. Anther color: Close to 59D. Pollen amount: Moderate. Pollen color: Close to 158A. Pistils: Quantity per flower: One. Pistil length: About 6 mm. Stigma diameter: About 1 mm. Stigma shape: Rounded. Stigma color: Close to 182D. Style color: Close to 183A. Ovary color: Close to 146A.

Seeds and fruits.—Seed and fruit production has not been observed on plants of the new *Impatiens*.

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

Garden performance: Plants of the new *Impatiens* have been observed to have good garden performance and tolerate temperatures ranging from about 5° C. to about 40° C.

It is claimed:

1. A new and distinct *Impatiens* plant named 'Duesspmagen' as illustrated and described.

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