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(54) **BEGONIA PLANT NAMED ‘SUNJIRAYEL’**

(50) Latin Name: *Begonia*×*tuberhybrida*
Varietal Denomination: **Sunjirayel**

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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Begonia* plant named ‘Sunjirayel’, characterized by its compact, outwardly spreading and mounding plant habit; vigorous growth habit; freely branching habit; and numerous single yellow-colored flowers that are held above and beyond the foliar plane.

1 Drawing Sheet

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Botanical designation: *Begonia*×*tuberhybrida*.
Cultivar denomination: ‘SUNJIRAYEL’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Begonia* plant, botanically known as *Begonia*×*tuberhybrida* and hereinafter referred to by the name ‘Sunjirayel’.

The new *Begonia* plant is a product of a planned breeding program conducted by the Inventor in Narusawa-mura, Minamituru-gun, Yamanashi, Japan. The objective of the breeding program is to create new compact and freely branching *Begonia* plants with a mounding plant habit and attractive leaf and flower coloration.

The new *Begonia* plant originated from a cross-pollination made by the Inventor in Narusawa-mura, Minamituru-gun, Yamanashi, Japan in May, 2006 of a proprietary selection of *Begonia*×*tuberhybrida* identified as code number FC02Y3204Y31-1, not patented, as the female, or seed, parent with a proprietary selection of *Begonia*×*tuberhybrida* identified as code number FC02Y3104Y31-2, not patented, as the male, or pollen, parent. The new *Begonia* plant was discovered and selected by the Inventor as a single flowering plant from within the progeny of the stated cross-pollination in a controlled environment in Narusawa-mura, Minamituru-gun, Yamanashi, Japan in August, 2007.

Asexual reproduction of the new *Begonia* plant by cuttings taken in a controlled greenhouse environment in Narusawa-mura, Minamituru-gun, Yamanashi, Japan since August, 2007 has shown that the unique features of this new *Begonia* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Begonia* have not been observed under all possible 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.

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

1. Compact, outwardly spreading and mounding plant habit.
2. Vigorous growth habit.
3. Freely branching habit.
4. Numerous single yellow-colored flowers that are held above and beyond the foliar plane.

Plants of the new *Begonia* differ primarily from plants of the female parent selection in the following characteristics:

1. Plants of the new *Begonia* have larger leaves than plants of the female parent selection.
2. Plants of the new *Begonia* have larger male flowers than plants of the female parent selection.

Plants of the new *Begonia* differ primarily from plants of the male parent selection in the following characteristics:

1. Plants of the new *Begonia* have larger leaves than plants of the male parent selection.
2. Plants of the new *Begonia* have larger male flowers than plants of the male parent selection.

Plants of the new *Begonia* can be compared to plants of *Begonia*×*tuberhybrida* ‘Firecracker Orange’, not patented. In side-by-side comparisons conducted in Narusawa-mura, Minamituru-gun, Yamanashi, Japan, plants of the new *Begonia* differed primarily from plants of ‘Firecracker Orange’ in the following characteristics:

1. Plants of the new *Begonia* were more compact than plants of ‘Firecracker Orange’.
2. Plants of the new *Begonia* had shorter internodes than plants of ‘Firecracker Orange’.
3. Plants of the new *Begonia* had shorter leaves and leaf petioles than plants of ‘Firecracker Orange’.
4. Plants of the new *Begonia* and ‘Firecracker Orange’ differed in leaf and leaf petiole color.
5. Plants of the new *Begonia* had smaller male flower tepals than plants of ‘Firecracker Orange’.
6. Plants of the new *Begonia* had smaller female flowers than plants of ‘Firecracker Orange’.

7. Plants of the new *Begonia* and 'Firecracker Orange' differed in flower color as plants of 'Firecracker Orange' had orange red-colored flowers.
8. Plants of the new *Begonia* had shorter peduncles than plants of 'Firecracker Orange'.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new *Begonia* 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 *Begonia* plant.

The photograph at the top of the sheet comprises a side perspective view of a typical flowering plant of 'Sunjirayel' grown in a container.

The photograph at the bottom of the sheet is a close up view of a typical plant of 'Sunjirayel'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and measurements describe plants grown during the late summer/early autumn in 12-cm containers in a polyethylene-covered greenhouse in Higashiomi, Shiga, Japan under commercial practices. During the production of the plants, the day temperatures averaged 23° C. and the night temperatures averaged 13° C. Plants were four months 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: *Begonia*x*tuberhybrida* 'Sunjirayel'.
Parentage:

Female, or seed, parent.—Proprietary selection of *Begonia*x*tuberhybrida* identified as code number FC02Y3204Y31-1, not patented.

Male, or pollen, parent.—Proprietary selection of *Begonia*x*tuberhybrida* identified as code number FC02Y3104Y31-2, not patented.

Propagation:

Type.—By cuttings.

Time to initiate roots, summer.—About 15 days at temperatures of 17° C. to 28° C.

Time to initiate roots, winter.—About 15 days at temperatures of 14° C. to 23° C.

Time to produce a rooted young plant, summer.—About 40 days at temperatures of 17° C. to 28° C.

Time to produce a rooted young plant, winter.—About 40 days at temperatures of 14° C. to 23° C.

Root description.—Fine, fibrous; white in color.

Rooting habit.—Freely branching; plants of the new *Begonia* have been observed to form tubers during the winter.

Plant description:

Plant form and growth habit.—Compact and mounding plant habit, outwardly spreading; freely branching with good stem strength; flowers are single and positioned above and beyond the foliar plane; vigorous growth habit.

Plant height.—About 16.4 cm.

Plant width.—About 31 cm.

Lateral branches.—Length: About 14 cm. Diameter: About 4.5 mm. Internode length: About 2.3 cm.

Aspect: Upright to outwardly. Texture: Sparsely pubescent. Color: Close to 176A.

Leaves.—Arrangement: Alternate; simple. Length: About 10.4 cm. Width: About 5 cm. Shape: Lanceolate, asymmetrical. Apex: Acute. Base: Cordate. Margin: Serrate. Texture, upper and lower surfaces: Smooth, glabrous. Venation pattern: Palmate. Color: Developing leaves, upper surface: Close to 137A and 143A tinted with close to 176A. Developing leaves, lower surface: Close to 138B tinted with close to 175A. Fully expanded leaves, upper surface: Close to N137A; venation, close to 144C tinted with close to 182C. Fully expanded leaves, lower surface: Close to 138B tinted with close to 182A; venation, close to 138B tinted with close to 182A. Petioles: Length: About 2.4 cm. Diameter: About 1.9 mm. Texture, upper and lower surfaces: Sparsely pubescent. Color, upper and lower surfaces: Close to 173B. Stipules: Length: About 5.4 cm. Width: About 2.1 cm. Shape: Ovate. Apex: Acute. Base: Truncate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: Close to 144B.

Flower description:

Flowering habit.—Single flowers arranged in axillary cymes; usually about two to four flowers per cyme and about 15 cymes developing per plant; flowers positioned above and beyond the foliar plane; flowers pendulous.

Natural flowering season.—Plants begin flowering about two months after planting; in the garden, plants flower continuously from the spring to late autumn in Japan; flowers not persistent.

Fragrance.—None detected.

Male flowers buds.—Length: About 2.3 cm. Diameter: About 1.2 cm. Shape: Ovoid. Color: Close to 149B; towards the apex, close to 154D.

Male flowers.—Shape: Cruciform. Diameter: About 4.2 cm. Depth (height): About 3 cm. Tepals: Quantity and arrangement: Four per flower in a single whorl. Length: About 2.9 cm. Width: About 1.3 cm. Shape: Narrowly ovate to ovate. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper surface: Close to 4A; towards the base, tinted with close to 34C. When opening, lower surface: Close to 4C. Fully opened, upper surface: Close to 4A. Fully opened, lower surface: Close to 4C.

Female flowers buds.—Length: About 2.3 cm. Diameter: About 1.1 cm. Shape: Ovoid. Color: Close to 149B; towards the apex, close to 154D.

Female flowers.—Shape: Rounded. Diameter: About 3.9 cm. Depth (height): About 2.8 cm. Tepals: Quantity and arrangement: Five per flower in a single whorl. Length: About 2.5 cm. Width: About 1.1 cm. Shape: Narrowly ovate to ovate. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening and fully opened, upper surface: Close to 4A. When opening and fully opened, lower surface: Close to 4C.

Flower bracts.—Length: About 6.5 mm. Width: About 5.9 mm. Color: Close to 144A.

Peduncles.—Angle: Outwardly. Length: About 2.5 cm. Diameter: About 1.4 mm. Texture: Smooth, glabrous. Color: Close to 177C.

Pedicels.—Angle: Outwardly. Length: About 1.3 cm.
Diameter: About 1.3 mm. Texture: Smooth, glabrous.
Color: Close to 145C tinted with close to N170C.
Reproductive organs.—Stamens: Quantity: About 34
per male flower. Length: About 4.7 mm. Anther
shape: Ovoid. Anther length: About 1.7 mm. Anther
diameter: About 1.3 mm. Anther color: Close to 2A.
Pollen amount: Moderate. Pollen color: Close to 10D.
Pistils: Quantity: One per female flower. Length:
About 1.1 cm. Stigma shape: Six-lobed, convoluted.
Stigma color: Close to 2A. Style color: Close to 2A.
Ovary length: About 9.9 mm. Ovary diameter: About
9.5 mm. Ovary color: Close to N144D.

Seeds and fruits.—Seed and fruit production have not
been observed on plants of the new *Begonia*.
Postproduction longevity: Excellent postproduction longev-
ity, plants last about 220 days.
5 Disease & pest resistance: Resistance to pathogens and pests
common to *Begonias* has not been observed.
Temperature tolerance: Plants of the new *Begonia* have been
observed to tolerate temperatures from about 14° C. to
about 28° C.
10 It is claimed:
1. A new and distinct *Begonia* plant named ‘Sunjirayel’ as
illustrated and described.

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