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Michalik

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(54) **GERANIUM PLANT NAMED 'REGCAN'**

(50) Latin Name: *Pelargonium grandiflorum*
Varietal Denomination: **Regcan**

(75) Inventor: **Andrea Michalik**, Dresden (DE)

(73) Assignee: **Elsner PAC Jungpflanzen**, Dresden (DE)

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(58) **Field of Classification Search** Plt./331
See application file for complete search history.

Primary Examiner—Susan B McCormick Ewoldt

(74) *Attorney, Agent, or Firm*—C. A. Whealy

(57) **ABSTRACT**

A new and distinct cultivar of Regal *Geranium* plant named 'Regcan', characterized by its upright, somewhat outwardly spreading and mounded plant habit; vigorous growth habit; freely basal branching habit; early and freely flowering habit; light and dark purple bi-colored flowers; and no requirement for cooling treatment for flower development.

1 Drawing Sheet

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Botanical designation: *Pelargonium grandiflorum*.
Cultivar denomination: 'Regcan'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of Regal *Geranium*, botanically known as *Pelargonium grandiflorum*, and hereinafter referred to by the name 'Regcan'.

The new Regal *Geranium* is a product of a planned breeding program conducted by the Inventor in Dresden, Germany. The objective of the breeding program is to develop new Regal *Geranium*s that do not require a cooling treatment for flower development.

The new Regal *Geranium* originated from a cross-pollination made by the Inventor in Dresden, Germany during the summer of 2002 of two unnamed proprietary selections of *Pelargonium grandiflorum*, not patented. The new Regal *Geranium* was discovered and selected by the Inventor as a flowering plant from within the progeny of the stated cross-pollination in a controlled greenhouse environment in Dresden, Germany during the spring of 2003.

Asexual reproduction of the new Regal *Geranium* by vegetative terminal cuttings in a controlled greenhouse environment in Dresden, Germany since October, 2003, has shown that the unique features of this new Regal *Geranium* are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new Regal *Geranium* have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment and cultural practices 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 'Regcan'. These characteristics in combination distinguish 'Regcan' as a new and distinct cultivar of Regal *Geranium*:

1. Upright, somewhat outwardly spreading and mounded plant habit.
2. Vigorous growth habit.

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3. Freely basal branching habit.
4. Early and freely flowering habit.
5. Light and dark red purple bi-colored flowers.
6. Does not require cooling treatment for flower development.

Plants of the new Regal *Geranium* differ primarily from plants of the parent selections in flower coloration. In addition, plants of the new Regal *Geranium* are more uniform than plants of the parent selections.

Plants of the new Regal *Geranium* can be compared to plants of the *Pelargonium grandiflorum* 'Regli', disclosed in a U.S. Plant patent application Ser. No. 11/820,029. In side-by-side comparisons conducted in Dresden, Germany, plants of the new Regal *Geranium* differed from plants of 'Regli' in the following characteristics:

1. Plants of the new Regal *Geranium* were taller than plants of 'Regli'.
2. Plants of the new Regal *Geranium* had smaller leaves than plants of 'Regli'.
3. Plants of the new Regal *Geranium* not as freely flowering as plants of 'Regli'.
4. Plants of the new Regal *Geranium* and 'Regli' differed in flower color as plants of 'Regli' had pink and purple-colored flowers.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new Regal *Geranium*, showing the colors as true as it is reasonably possible to obtain in colored reproductions 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 Regal *Geranium*. The photograph comprises a side perspective view of a typical flowering plant of 'Regcan' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations, measurements and values describe plants grown in

Dresden, Germany in a glass-covered greenhouse during the winter and spring and under conditions which closely approximate commercial Regal *Geranium* production. During the production of the plants, day temperatures averaged 18° C., night temperatures averaged 16° C. and light levels ranged from 15 kilolux to 60 kilolux. Plants were six months from planting when the photograph and the description were taken. In the detailed description, color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Pelargonium grandiflorum* 'Regcan'.

Parentage:

Female, or seed, parent.—Unnamed proprietary selection of *Pelargonium grandiflorum*, not patented.

Male or pollen parent.—Unnamed proprietary selection of *Pelargonium grandiflorum*, not patented.

Propagation:

Type.—By vegetative terminal cuttings.

Time to initiate roots, summer.—About 18 days at temperatures of 20° C.

Time to initiate roots, winter.—About 22 days at temperatures of 20° C.

Time to produce a rooted young plant, summer and winter.—About 30 days at temperatures of 20° C.

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

Rooting habit.—Freely branching; dense.

Plant description:

Plant/growth habit.—Upright, somewhat outwardly spreading and mounded plant habit; inverted triangle; densely foliated. Vigorous growth habit. Freely basal branching habit with about seven lateral branches developing per plant.

Plant height, to top of umbels.—About 32 cm.

Plant height, to top of leaves.—About 20 cm.

Plant width.—About 40 cm.

Lateral branches.—Length: About 10 cm. Diameter: About 6 mm. Internode length: About 1 cm to 2 cm. Texture: Pubescent. Color: Close to 144B.

Foliage description:

Arrangement.—Alternate or opposite; simple.

Length.—About 5 cm.

Width.—About 8 cm.

Shape.—Cordate; palmately lobed.

Apex.—Acute.

Base.—Cordate, open.

Margin.—Serrate to biserrate.

Venation pattern.—Palmate.

Texture, upper surface.—Smooth, glabrous; leathery. *Texture, lower surface.*—Slightly pubescent on veins; leathery.

Color.—Developing and fully expanded foliage, upper surface: Close to 137A; venation, close to 137A. Developing and fully expanded foliage, lower surface: Close to 137C; venation, close to 144A. Zonation pattern: Not discernible. Petiole: Length: About 5 cm. Diameter: About 4 mm. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: Close to 144A.

Flower description:

Flower arrangement.—Single rotate flowers arranged in inversely conical umbels arising from apical leaf

axils. Umbels displayed above the foliage on strong peduncles. Flowers face upright to outward. Flowers not persistent. Flowers not fragrant.

Quantity of flowers.—Freely flowering habit; about four flowers per umbel.

Flowering season.—In Dresden, Germany, flowering initiates in the spring and continues into the summer. Plants do not require a cooling treatment for flower development.

Flower longevity.—Individual flowers last about two weeks on the plant.

Umbel height.—About 6 cm.

Umbel diameter.—About 7 cm.

Flower diameter.—About 5 cm.

Flower depth (height).—About 3 cm.

Flower buds.—Length: About 1 cm. Diameter: About 5 mm. Shape: Roughly elliptical. Color: Close to 146B.

Petals.—Quantity per flower: Five or six; imbricate. Length, upper and lower petals: About 4 cm. Width, upper petals: About 3.5 cm. Width, lower petals: About 2.5 cm. Shape: Obovate. Apex: Rounded. Base: Cuneate to attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; satiny. Color: When opening and fully opened, upper surface: Close to 74C; central splotch, close to 187B; venation, close to 74A. Color becoming closer to 74D with development. When opening and fully opened, lower surface: Close to 74D; venation, close to 74A.

Sepals.—Quantity per flower: Five, arranged in a single whorl. Length: About 1.5 cm. Width: About 5 mm. Shape: Lanceolate. Apex: Acute. Margin: Entire. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: Close to 144A.

Peduncle (umbel stem).—Length: About 5 cm. Diameter: About 3 mm. Strength: Strong. Angle: Mostly erect to slightly outwardly slanted. Texture: Pubescent. Color: Close to 146A.

Pedicle (individual flower stem).—Length: About 2 cm. Diameter: About 2 mm. Strength: Strong; flexible. Texture: Pubescent. Color: Close to 146A.

Reproductive organs.—Androecium: Stamen quantity per flower: About eight. Anther length: About 2 mm. Anther shape: Tubular. Anther color: Close to 72A. Pollen amount: Abundant. Pollen color: Close to 171A. Gynoecium: Pistil quantity per flower: One. Pistil length: About 2 cm. Stigma shape: Five-parted. Stigma color: Darker than 59A. Style length: About 4 mm. Style color: Darker than 59A. Ovary color: Close to 146C. Seeds: Length: About 2 mm to 3 mm. Diameter: About 1 mm. Color: Close to 200A.

Disease/pest resistance. Plants of the new Regal *Geranium* have not been observed to be resistant to pathogens and pests common to Regal *Geraniums*.

Temperature tolerance. Plants of the new Regal *Geranium* have been observed to tolerate temperatures ranging from about 1° C. to about 35° C. to 40° C.

It is claimed:

1. A new and distinct Regal *Geranium* plant named 'Regcan' as illustrated and described.

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