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(54) **GERANIUM PLANT NAMED ‘PACYELL’**

(50) Latin Name: *Pelargonium×hortorum*

Varietal Denomination: **Pacyell**

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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of Zonal *Geranium* plant named ‘Pacyell’, characterized by its compact, upright and flat-topped plant habit; moderately vigorous growth habit; dark green-colored leaves; early flowering habit; semi-double light yellow-colored flowers; and good garden performance.

1 Drawing Sheet

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Botanical designation: *Pelargonium×hortorum*.
Cultivar denomination: ‘PACYELL’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of Zonal *Geranium* plant, botanically known as *Pelargonium×hortorum*, and hereinafter referred to by the name ‘Pacyell’.

The new Zonal *Geranium* plant is a product of a planned breeding program conducted by the Inventor in Dresden, Germany. The objective of the breeding program is to create new compact semi-double flowered Zonal *Geranium* cultivars with uniform plant habit, dark green-colored foliage and attractive flower coloration.

The new Zonal *Geranium* plant originated from a cross-pollination made by the Inventor in Dresden, Germany during the summer of 2005 of the *Pelargonium×hortorum* ‘Botham’s Surprise’, not patented, as the female, or seed, parent with an unnamed proprietary selection of *Pelargonium×hortorum*, not patented. The new Zonal *Geranium* was discovered and selected by the Inventor as a single flowering plant from within the progeny of the stated cross-pollination in a controlled greenhouse environment in Dresden, Germany in June, 2006.

Asexual reproduction of the new Zonal *Geranium* plant by vegetative terminal cuttings in a controlled greenhouse environment in Dresden, Germany since December, 2006, has shown that the unique features of this new Zonal *Geranium* are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new Zonal *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 ‘Pacyell’. These characteristics in combination distinguish ‘Pacyell’ as a new and distinct cultivar of Zonal *Geranium*:

1. Compact, upright and flat-topped plant habit.
2. Moderately vigorous growth habit.
3. Dark green-colored leaves.

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4. Early flowering habit.
5. Semi-double light yellow-colored flowers.
6. Good garden performance.

Plants of the new Zonal *Geranium* differ primarily from plants of the female parent, ‘Botham’s Surprise’, in the following characteristics:

1. Plants of the new Zonal *Geranium* are more compact than plants of ‘Botham’s Surprise’.
2. Plants of the new Zonal *Geranium* flower earlier than plants of ‘Botham’s Surprise’.
3. Plants of the new Zonal *Geranium* are more freely flowering than plants of ‘Botham’s Surprise’.
4. Plants of the new Zonal *Geranium* ‘Botham’s Surprise’ differ slightly in flower color.
5. Plants of the new Zonal *Geranium* have shorter peduncles than plants of ‘Botham’s Surprise’.

Plants of the new Zonal *Geranium* and the male parent selection differ in plant vigor and flower color.

Plants of the new Zonal *Geranium* can be compared to plants of *Pelargonium×hortorum* ‘KLEPZ05148’, disclosed in U.S. Plant Pat. No. 18,629. In side-by-side comparisons conducted in Dresden, Germany, plants of the new Zonal *Geranium* differed from plants of ‘KLEPZ05148’ in the following characteristics:

1. Plants of the new Zonal *Geranium* were more compact with shorter internodes than plants of ‘KLEPZ05148’.
2. Plants of the new Zonal *Geranium* were less vigorous than plants of ‘KLEPZ05148’.
3. Plants of the new Zonal *Geranium* and ‘KLEPZ05148’ differed slightly in flower color.
4. Plants of the new Zonal *Geranium* had shorter peduncles and pedicels than plants of ‘KLEPZ05148’.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new Zonal *Geranium* plant, 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 *Zonal Geranium*. The photograph comprises a side perspective view of a typical flowering plant of 'Pacyell' 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 autumn and winter and under conditions which closely approximate commercial *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 100 kilolux. Plants were three months from planting when the photograph and 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* × *hortorum* 'Pacyell'.
Parentage:

Female, or seed, parent.—'Botham's Surprise' of *Pelargonium* × *hortorum*, not patented.

Male or pollen parent.—Unnamed proprietary selection of *Pelargonium* × *hortorum*, 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.—About 25 days at temperatures of 20° C.

Time to produce a rooted young plant, 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.—Compact, upright and flat-topped plant habit; densely foliated; moderately vigorous growth habit. Basal branching habit with about three lateral branches developing per plant.

Plant height, to top of umbels.—About 22 cm.

Plant height, to top of leaves.—About 10 cm.

Plant width.—About 25 cm.

Lateral branches.—Length: About 5 cm. Diameter: About 5 mm. Internode length: About 5 mm to 10 mm. Texture: Pubescent. Color: Close to 144A.

Foliage description:

Arrangement.—Alternate or opposite; simple.

Length.—About 4 cm to 6 cm.

Width.—About 6 cm to 8 cm.

Shape.—Cordate.

Apex.—Ovate.

Base.—Cordate.

Margin.—Crenate.

Venation pattern.—Palmate.

Texture, upper and lower surfaces.—Pubescent; leathery.

Color.—Developing and fully expanded leaves, upper surface: Close to 147A; venation, close to 146C. Developing and fully expanded leaves, lower surface: Close to 147B; venation, close to 146C. Zonation pattern: Not discernible. Petiole: Length: About 3 cm

to 7 cm. Diameter: About 2 mm. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: Close to 144A.

Flower description:

Flower arrangement.—Semi-double rotate flowers arranged in rounded hemispherical umbels arising from apical leaf axils. Umbels displayed above the foliage on strong peduncles. Flowers face upright to outward; flowers rounded and flat. Flowers not fragrant.

Quantity of flowers.—About seven flower umbels per plant each with about ten flower buds and open flowers.

Time to flower.—Early flowering habit, plants begin to flower about 65 days after planting.

Flowering season.—Year-round under greenhouse conditions. In the garden in Dresden, Germany, flowering is continuous from April until frost in the autumn.

Flower longevity.—Individual flowers last about six to ten days on the plant; umbels last about three to four weeks on the plant; flowers persistent.

Umbel height.—About 4 cm.

Umbel diameter.—About 6 cm.

Flower diameter.—About 3.5 cm.

Flower depth (height).—About 5 mm.

Flower buds.—Length: About 7 mm. Diameter: About 4 mm. Shape: Rounded. Color: Close to 144A.

Petals.—Quantity per flower: About eight to ten; imbricate. Length: About 1.7 cm. Width: About 9 mm to 12 mm. Shape: Obovate. Apex: Rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening, upper surface: Close to 1C. When opening, lower surface: Close to 1D. Fully opened, upper and lower surfaces: Close to 1D; at the base, close to 155D; venation, upper petals, close to 46A; venation, lower petals, close to 1D.

Petaloids.—Quantity per flower: About three. Length: About 5 mm to 10 mm. Width: About 2 mm to 5 mm. Shape: Irregular. Apex: Rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening, upper surface: Close to 1C. When opening, lower surface: Close to 1D. Fully opened, upper and lower surfaces: Close to 1D; at the base, close to 155D; venation, close to 1D.

Sepals.—Quantity per flower: Five, arranged in a single whorl. Length: About 7 mm. Width: About 3 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 10 cm to 15 cm. Diameter: About 2 mm. Strength: Strong. Angle: Mostly erect. Texture: Pubescent. Color: Close to 144A.

Pedicle (individual flower stem).—Length: About 2 cm to 2.5 cm. Diameter: About 1 mm. Strength: Moderately strong; flexible. Texture: Pubescent. Color: Close to 144A.

Reproductive organs.—Androecium: Stamen quantity per flower: About eight. Anther length: About 2 mm. Anther shape: Tubular. Anther color: Close to 172A. Pollen amount: Moderate. Pollen color: Close to 25A. Gynoecium: Pistil quantity per flower: One. Pistil length: About 6 mm. Stigma shape: Five to six-parted.

Stigma color: Close to 38B. Style length: About 2 mm. Style color: Close to 38B. Ovary color: Close to 148C.

Seeds.—Seed development has not been observed.

Disease/pest resistance: Plants of the new *Zonal Geranium* 5 have not been observed to be resistant to pathogens and pests common to *Zonal Geraniums*.

Garden performance: Plants of the new *Zonal Geranium* have been observed to tolerate rain, wind and temperatures rang-

ing from about 0° C. to about 35° C. to 40° C. and have demonstrated good garden performance.

It is claimed:

1. A new and distinct *Zonal Geranium* plant named 'Pacyell' as illustrated and described.

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