



(12) **United States Plant Patent**
Michalik

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

(50) Latin Name: *Pelargonium×hortorum*
Varietal Denomination: **Pacros**

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patent is extended or adjusted under 35
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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
‘Pacros’, characterized by its upright and rounded plant habit;
freely branching habit; moderately vigorous growth habit;
dark green-colored leaves; freely flowering habit; long flow-
ering period; semi-double dark pink-colored flowers; and
good garden performance.

1 Drawing Sheet

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

BACKGROUND OF THE INVENTION

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

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 uniform semi-double flowered Zonal Geranium plants
with dark green-colored leaves 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 2004 of two unnamed proprietary selections of
Pelargonium×hortorum, not patented. The new Zonal Gera-
nium 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 greenhouse environment in
Dresden, Germany in June, 2005.

Asexual reproduction of the new Zonal Geranium plant by
vegetative terminal cuttings in a controlled greenhouse envi-
ronment in Dresden, Germany since January, 2006, has
shown that the unique features of this new Zonal Geranium
plant 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 cul-
tural practices such as temperature and light intensity with-
out, however, any variance in genotype.

The following traits have been repeatedly observed and are
determined to be the unique characteristics of ‘Pacros’. These
characteristics in combination distinguish ‘Pacros’ as a new
and distinct cultivar of Zonal Geranium:

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1. Upright and rounded plant habit.
2. Freely branching habit.
3. Moderately vigorous growth habit.
4. Dark green-colored leaves.
5. Freely flowering habit.
6. Long flowering period.
7. Semi-double dark pink-colored flowers.
8. Good garden performance.

Plants of the new Zonal Geranium differ primarily from
plants of the parent selections in plant vigor and flower color.

Plants of the new Zonal Geranium can be compared to
plants of *Pelargonium×hortorum* ‘Pacmeta’, disclosed in
U.S. Plant Pat. No. 20,423. In side-by-side comparisons con-
ducted in Dresden, Germany, plants of the new Zonal Gera-
nium differed from plants of ‘Pacmeta’ in the following char-
acteristics:

1. Plants of the new Zonal Geranium and ‘Pacmeta’ dif-
fered in pedicel color.
2. Plants of the new Zonal Geranium and ‘Pacmeta’ dif-
fered in flower color.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the over-
all 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 plant. The photograph comprises a
side perspective view of a typical flowering plant of ‘Pacros’
grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observa-
tions, measurements and values describe plants grown in
19-cm containers in Dresden, Germany in a glass-covered
greenhouse during the summer and autumn and under condi-
tions which closely approximate commercial Geranium pro-
duction. During the production of the plants, day tempera-

tures averaged 18° C., night temperatures averaged 16° C. and light levels ranged from 15 kilolux to 100 kilolux. Plants were four months old when the photograph was taken and plants were nine months old when the description was 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 x hortorum* 'Pacros'.

Parentage:

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

Male or pollen parent.—Unnamed proprietary selection of *Pelargonium x 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 and winter.—About four weeks at temperatures of 20° C.

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

Rooting habit.—Freely branching; dense.

Plant description:

Plant/growth habit.—Upright to rounded plant habit; densely foliated; vigorous growth habit; freely basal branching habit with about twelve lateral branches developing per plant.

Plant height, to top of umbels.—About 33 cm.

Plant height, to top of leaves.—About 25 cm.

Plant width.—About 45 cm.

Lateral branches.—Length: About 15 cm. Diameter: About 8 mm. Internode length: About 1.5 cm. Texture: Pubescent. Color: Close to 144A.

Foliage description:

Arrangement.—Alternate or opposite; simple.

Length.—About 5 cm.

Width.—About 8 cm.

Shape.—Reniform, rounded.

Apex.—Rounded.

Base.—Cordate.

Margin.—Crenate.

Venation pattern.—Palmate.

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

Color.—Developing and fully expanded leaves, upper surface: Close to 147A; venation, close to 147A. Developing and fully expanded leaves, lower surface: Close to 147B; venation, close to 146B. Zonation pattern: Not observed. Petiole: Length: About 6 cm. Diameter: About 3 mm. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: Close to 146B.

Flower description:

Flower arrangement/shape.—Semi-double rotate flowers arranged in rounded hemispherical umbels arising from apical leaf axils; umbels displayed above the foliage on strong peduncles; depending on the position in the umbel, flowers face upright to outwardly; flowers flat to slightly cupped.

Fragrance.—None detected.

Quantity of flowers.—Freely flowering habit; about 28 flower umbels develop per plant; each umbel with about 30 flower buds and open flowers.

Flowering season.—Year-round under greenhouse conditions; long flowering period, in the garden in Dres-

den, Germany, flowering is continuous from April until frost in the autumn; plants begin to flower about 75 days after planting.

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 7 cm.

Umbel diameter.—About 11 cm.

Flower diameter.—About 5 cm.

Flower depth (height).—About 1.5 cm.

Flower buds.—Length: About 8 mm. Diameter: About 5 mm. Shape: Spindle-shaped to rounded. Color: Close to 144A.

Petals.—Quantity per flower: About eight; petals imbricate. Length: About 2.6 cm. Width: About 2.5 cm. Shape: Obovate. Apex: Rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening and fully opened, upper surface: Close to 68A; at the base, close to 155D; venation, close to 68A; color does not fade with development. When opening and fully opened, lower surface: Close to 66D; at the base, close to 155D; venation, close to 66C.

Petaloids.—Quantity per flower: Usually only one. Length: About 1 cm to 2 cm. Width: About 2 mm to 10 mm. Shape: Irregular. Apex: Rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening and fully opened, upper surface: Close to 68A; at the base, close to 155D; venation, close to 68A; color does not fade with development. When opening and fully opened, lower surface: Close to 66D; at the base, close to 155D; venation, close to 66C.

Sepals.—Quantity per flower: Five arranged in a single whorl. Length: About 1 cm. Width: About 2 mm. Shape: Lanceolate. Apex: Acute. Margin: Entire. Texture, upper and lower surfaces: Slightly pubescent. Color, upper and lower surfaces: Close to 144A.

Peduncle (umbel stem).—Length: About 14 cm. Diameter: About 4 mm. Strength: Strong. Angle: Mostly erect. Texture: Pubescent. Color: Close to 199A.

Pedicel (individual flower stem).—Length: About 3 cm. Diameter: About 2 mm. Strength: Moderately strong; flexible. Texture: Pubescent. Color: Close to 174A.

Reproductive organs.—Androecium: Stamen quantity per flower: About ten. Anther length: About 2 mm. Anther shape: Tubular. Anther color: Close to 176A. Pollen amount: Abundant. Pollen color: Close to 169A. Gynoecium: Pistil quantity per flower: One. Pistil length: About 7 mm. Stigma shape: Five to six-parted. Stigma color: Close to 46A. Style length: About 3 mm. Style color: Close to 46A. Ovary color: Close to 139D.

Seeds.—Seed development has not been observed on plants of the new Zonal Geranium.

Disease/pest resistance: Plants of the new Zonal Geranium 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 ranging from about 1° C. to about 35° C. to about 40° C. and have demonstrated good garden performance.

It is claimed:

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

