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Geibel

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(54) **PELARGONIUM PLANT NAMED ‘PACALM’**

(50) Latin Name: *Pelargonium x hortorum*
Varietal Denomination: **Pacalm**

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patent is extended or adjusted under 35
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(57) **ABSTRACT**

A new and distinct Zonal Geranium plant named ‘Pacalm’,
characterized by its upright and uniformly rounded plant
habit; moderately vigorous growth habit; freely basal
branching habit; dark green-colored leaves; early and freely
flowering habit; and light red purple-colored semi-double
flowers held above the foliar plane on strong peduncles.

1 Drawing Sheet

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Botanical designation: *Pelargonium x hortorum*.
Cultivar denomination: ‘PACALM’.

BACKGROUND OF THE INVENTION

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

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
develop new uniform Zonal Geranium plants with dark
green-colored leaves and numerous attractive flowers.

The new Zonal Geranium plant originated from a cross-
pollination made by the Inventor in Dresden, Germany
during the summer of 2011 of two unnamed proprietary
selections of *Pelargonium x hortorum*, not patented. The
new Zonal Geranium plant was discovered and selected by
the Inventor as a flowering plant from within the progeny of
the stated cross-pollination in a controlled greenhouse envi-
ronment in Dresden, Germany during the spring of 2012.

Asexual reproduction of the new Zonal Geranium plant
by vegetative terminal cuttings in a controlled greenhouse
environment in Dresden, Germany since January, 2013 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 combinations of environmental conditions
and cultural practices. The phenotype may vary somewhat
with variations in environmental conditions such as tem-
perature 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 ‘Pacalm’.
These characteristics in combination distinguish ‘Pacalm’ as
a new and distinct Zonal Geranium plant:

1. Upright and uniformly rounded plant habit.
2. Moderately vigorous growth habit.
3. Freely basal branching habit.
4. Dark green-colored leaves.
5. Early and freely flowering habit.
6. Light red purple-colored semi-double flowers held
above the foliar plane on strong peduncles.

Plants of the new Zonal Geranium differ primarily from
plants of the parent selections in plant habit as plants of the
new Zonal Geranium are more uniform than plants of the
parent selections.

Plants of the new Zonal Geranium can be compared to
plants of the *Pelargonium x hortorum* ‘Pactina’, disclosed in
U.S. Plant Pat. No. 16,778. In side-by-side comparisons,
plants of the new Zonal Geranium differ from plants of
‘Pactina’ in the following characteristics:

1. Plants of the new Zonal Geranium are more freely
branching than plants of ‘Pactina’.
2. Leaves of plants of the new Zonal Geranium are darker
green in color than leaves of plants of ‘Pactina’.
3. Flowers of plants of the new Zonal Geranium are
lighter red purple in color than flowers of plants of
‘Pactina’.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the
overall appearance of the new Zonal Geranium plant show-
ing 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 'Pacalm' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations, measurements and values describe plants grown in 19-cm containers during the spring, summer and autumn in a glass-covered greenhouse in Dresden, Germany and under cultural practices typical of commercial Zonal 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 old when the photograph was taken and nine months old when the detailed 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* 'Pacalm'.
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 about 20° C.

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

Time to produce a rooted young plant, summer.—About four weeks at temperatures about 20° C.

Time to produce a rooted young plant, winter.—About four weeks at temperatures about 18° C.

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

Rooting habit.—Freely branching; dense.

Plant description:

Plant and growth habit.—Upright and uniformly rounded plant habit; inverted triangle; densely foliated; moderately vigorous growth habit; rapid growth rate; freely basal branching habit with about 28 lateral branches developing per plant; pinching is not required.

Plant height, to top of umbels.—About 35 cm.

Plant height, to top of foliar plane.—About 25 cm.

Plant width.—About 45 cm.

Lateral branches.—Length: About 22 cm. Diameter: About 1 cm. Internode length: About 1.5 cm. Texture: Pubescent. Color: Close to 144A.

Leaf description:

Arrangement.—Typically opposite; simple.

Length.—About 5.4 cm.

Width.—About 8.9 cm.

Shape.—Rounded; roughly reniform.

Apex.—Rounded.

Base.—Cordate, open.

Margin.—Bi-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 144A. Zonation pattern: Intensity: Faint. Width: About 5 mm. Distance from margin: Close to 1 cm. Color: Darker than 147A.

Petioles.—Length: About 6 cm. Diameter: About 3 mm. Texture, upper and lower surfaces: Pubescent; rough. Color, upper and lower surfaces: Close to 148B.

Flower description:

Flower arrangement and flowering habit.—Semi-double flowers arranged in roughly hemispherical umbels arising from apical leaf axils; umbels displayed above the foliar plane on strong peduncles; flowers face upright to outwardly; freely flowering habit with about 25 flower buds and flowers per umbel and about 27 umbels developing per plant.

Fragrance.—None detected.

Flowering season.—Early flowering habit, plants begin flowering about 80 days after planting; in the garden in Germany, flowering begins in April and continues until frost in the autumn.

Flower longevity.—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 6 cm.

Umbel diameter.—About 9.5 cm.

Flower diameter.—About 4.8 cm.

Flower depth (height).—About 2 cm.

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

Petals.—Quantity per flower: About seven; petals imbricate. Length: About 2.6 cm. Width: About 2 cm to 2.5 cm. Shape: Obovate. Apex: Rounded. Base: Cuneate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening and fully opened, upper surface: Close to 69D and becoming closer to 65B with development; venation, close to 65B; color becoming close to 69D with subsequent development. When opening and fully opened, lower surface: Close to 69D; venation, close to 65B; color does not change with development.

Petaloids.—Quantity per flower: None to about two arranged at the center of the flower. Length: About 1 cm to 1.5 cm. Width: About 3 mm to 5 mm. Shape: Irregularly shaped. Apex: Acute to rounded. Base: Cuneate. Margin: Entire. Texture, upper and lower surfaces: Smooth to crinkled, glabrous. Color: When opening and fully opened, upper surface: Close to 69D and becoming closer to 65B with development; venation, close to 65B; color becoming close to 69D with subsequent development. When opening and fully opened, lower surface: Close to 69D; venation, close to 65B; color does not change with development.

Sepals.—Quantity per flower: Five arranged in a single whorl. Length: About 1 cm. Width: About 3 mm. Shape: Lanceolate. Apex: Acute. Margin: Entire. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Pubescent. Color, upper and lower surfaces: Close to 175A.

Peduncles (umbel stems).—Length: About 14 cm. Diameter: About 4 mm. Strength: Strong. Angle:

Mostly upright. Texture: Pubescent. Color: Distally, close to 166A; proximally, close to 146B.

Pedicels (individual flower stems).—Length: About 2.7 cm. Diameter: About 1 mm. Strength: Moderately strong; flexible. Texture: Pubescent. Color: Close to 175A.

Reproductive organs.—Androecium: Stamen quantity per flower: About ten. Anther length: About 2 mm. Anther shape: Tubular. Anther color: Close to 71A. Pollen amount: Abundant. Pollen color: Close to 171A. Gynoecium: Pistil quantity per flower: One. Pistil length: About 8 mm. Stigma shape: Five to six-parted. Stigma color: Close to 58A. Style length: About 3 mm. Style color: Close to 58A. Ovary color:

Close to 200D. Seeds and fruits: Seed and fruit development have 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.

Temperature tolerance: Plants of the new Zonal 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 Zonal Geranium plant named 'Pacalm' as illustrated and described.

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