

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

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

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

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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  
‘Pacsalque’, characterized by its compact, upright and uni-  
formly rounded plant habit; freely branching habit; low vigor  
to moderately vigorous growth habit; leaves with a distinct  
zonation pattern; early and freely flowering habit; and semi-  
double light red-colored flowers with white-colored margins.

**1 Drawing Sheet**

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

**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 ‘Pac-  
salque’.

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 and early flowering Zonal Geranium plants with  
attractive leaf and 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 two unnamed proprietary selections of  
*Pelargonium* ×*hortorum*, not patented. The new Zonal Gera-  
nium plant was discovered and selected by the Inventor as a  
flowering plant from within the progeny of the stated cross-  
pollination in a controlled environment in Dresden, Germany  
during the spring of 2006.

Asexual reproduction of the new Zonal Geranium plant by  
vegetative terminal cuttings in a controlled environment in  
Dresden, Germany since January, 2007, 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 and cultural  
practices. The phenotype may vary somewhat with variations  
in environment 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 ‘Pacsalque’.  
These characteristics in combination distinguish ‘Pacsalque’  
as a new and distinct Zonal Geranium plant:

1. Compact, upright and uniformly rounded plant habit.
2. Freely branching habit.

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3. Low vigor to moderately vigorous growth habit.
4. Leaves with a distinct zonation pattern.
5. Early and freely flowering habit.
6. Semi-double light red-colored flowers with white-col-  
ored margins.

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 the *Pelargonium*×*hortorum* ‘Pacsalkom’, disclosed  
in U.S. Plant Pat. No. 20,673. In side-by-side comparisons  
conducted in Dresden, Germany, plants of the new Zonal  
Geranium differed from plants of ‘Pacsalkom’ in the follow-  
ing characteristics:

1. Plants of the new Zonal Geranium were more compact  
than plants of ‘Pacsalkom’.
2. Plants of the new Zonal Geranium were less vigorous  
than plants of ‘Pacsalkom’.
3. Leaves of plants of the new Zonal Geranium were  
smaller than leaves of plants of ‘Pacsalkom’; in addition,  
leaves of plants of the new Zonal Geranium had a dis-  
tinct zonation pattern whereas leaves of plants of ‘Pac-  
salkom’ did not have a distinct zonation pattern.
4. Plants of the new Zonal Geranium were more freely  
flowering than plants of ‘Pacsalkom’.
5. Plants of the new Zonal Geranium and ‘Pacsalkom’  
differed slightly in flower color.
6. Flowers of plants of the new Zonal Geranium had fewer  
petals than flowers of plants of ‘Pacsalkom’.

**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 'Pacsalque' grown in a container.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations, measurements and values describe plants grown in 19-cm containers in a glass-covered greenhouse in Dresden, Germany and under conditions which closely approximate 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 plants were six 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* 'Pacsalque'.

#### 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.*—About 30 days at temperatures of 20° C.

*Time to produce a rooted young plant, winter.*—About 30 days at temperatures of 18° C.

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

*Rooting habit.*—Freely branching; dense.

#### Plant description:

*Plant/growth habit.*—Compact, upright and uniformly rounded plant habit; densely foliated; low vigor to moderately vigorous growth habit; freely basal branching habit with about ten lateral branches developing per plant.

*Plant height, to top of umbels.*—About 25 cm.

*Plant height, to top of leaves.*—About 15 cm.

*Plant width.*—About 40 cm.

*Lateral branches.*—Length: About 9 cm. Diameter: About 8 mm. Internode length: About 1 cm. Texture: Pubescent. Color: Close to 144A.

#### Foliage description:

*Arrangement.*—Alternate and opposite; simple.

*Length.*—About 4 cm.

*Width.*—About 6 cm.

*Shape.*—Reniform, rounded.

*Apex.*—Rounded.

*Base.*—Cordate.

*Margin.*—Crenate.

*Venation pattern.*—Palmate.

*Texture, upper and lower surfaces.*—Pubescent; rough.

*Color.*—Developing and fully expanded leaves, upper surface: Lighter than 147A; venation, close to 144A. Developing and fully expanded leaves, lower surface: Close to 147B; venation, close to 144A.

*Zonation pattern.*—Intensity: Medium. Location of zone: About 5 mm from the margin. Width: About 1.5 cm. Color: Closest to 147A.

*Petiole.*—Length: About 4 cm. Diameter: About 2 mm.

Texture, upper and lower surfaces: Pubescent; rough.

Color, upper and lower surfaces: Close to 144A.

#### Flower description:

*Flower arrangement.*—Single semi-double flowers arranged in rounded hemispherical umbels arising from apical leaf axils; umbels displayed above the foliar plane on strong peduncles; flowers slightly cupped to flat and face upright to outward depending on the position in the umbel.

*Fragrance.*—None detected.

*Quantity of flowers.*—Freely flowering habit; about twelve umbels develop per plant; each umbel with about 25 flower buds and open flowers.

*Flowering season.*—Early flowering habit, plants begin flowering about 70 days after planting; in the greenhouse, plants flower year-round; in the garden in 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 not persistent.

*Umbel height.*—About 6 cm.

*Umbel diameter.*—About 11 cm.

*Flower diameter.*—About 4 cm.

*Flower depth (height).*—About 1.5 cm.

*Flower buds.*—Length: About 5 mm. Diameter: About 5 mm. Shape: Rounded. Color: Close to 144A.

*Petals.*—Quantity and arrangement: Eight per flower arranged in a single whorl; petals imbricate. Length, upper and lower petals: About 2.2 cm. Width, upper and lower petals: About 2 cm. Shape: Roughly 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 41C; towards the margins and base, close to 155A; venation, close to 52B; color becoming closer to 43D with development. When opening and fully opened, lower surface: Close to 56D; towards the base, close to 155D; venation, close to 52D.

*Petaloids.*—Quantity: If present, up to three per flower. Length: About 1 cm. Width: About 5 mm. Shape: Irregular. Apex: Pointed to rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening and fully opened, upper surface: Close to 41C; towards the margins and base, close to 155A; venation, close to 52A; color becoming closer to 43D with development. When opening and fully opened, lower surface: Close to 56D; towards the base, close to 155D; venation, close to 56D.

*Sepals.*—Quantity and arrangement: Five per flower 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: Slightly pubescent. Color, upper and lower surfaces: Close to 144A.

*Peduncle (umbel stem).*—Length: About 10 cm. Diameter: About 4 mm. Strength: Strong. Angle: Mostly erect or outwardly slanted. Texture: Pubescent. Color: Close to 144A.

*Pedicle (individual flower stem).*—Length: About 3 cm.  
Diameter: About 2 mm. Strength: Strong; flexible.  
Texture: Pubescent. Color: Close to 199A.

*Reproductive organs.*—Androecium: Quantity of stamens: About ten per flower. Anther length: About 2 mm. Anther shape: Tubular. Anther color: Close to 169A. Pollen amount: Scarce. Pollen color: Close to 169A. Gynoecium: Quantity of pistils: One per flower. 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 155D. Ovary color: Pale green. 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 wind and temperatures ranging from about 1° 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 ‘Pac-salque’ as illustrated and described.

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