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Geibel

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

(50) Latin Name: *Pelargonium peltatum*
Varietal Denomination: **Pachafmag**

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

A new and distinct Ivy Geranium plant named ‘Pachafmag’,
characterized by its uniformly mounded and cascading to
trailing plant habit; vigorous growth habit; freely basal
branching habit; freely flowering habit; and dark red purple-
colored single-type flowers held above the foliar plane.

1 Drawing Sheet

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Botanical designation: *Pelargonium peltatum*.
Cultivar denomination: ‘PACHAFMAG’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of Ivy Geranium plant, botanically known as *Pelargonium*
peltatum, and hereinafter referred to by the name
‘Pachafmag’.

The new Ivy 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 vigorous Ivy Geranium plants with uniform plant habit
and numerous single flowers.

The new Ivy Geranium plant originated from a cross-pol-
lination made by the Inventor in Dresden, Germany during
the summer of 2007 of two unnamed proprietary selections of
Pelargonium peltatum, not patented. The new Ivy Geranium
plant was discovered and selected by the Inventor as a flow-
ering plant from within the progeny of the stated cross-poll-
ination in a controlled greenhouse environment in Dresden,
Germany in June, 2008.

Asexual reproduction of the new Ivy Geranium plant by
vegetative terminal cuttings in a controlled greenhouse envi-
ronment in Dresden, Germany since December, 2008 has
shown that the unique features of this new Ivy Geranium plant
are stable and reproduced true to type in successive genera-
tions.

SUMMARY OF THE INVENTION

Plants of the new Ivy Geranium have not been observed
under all possible environmental conditions and cultural
practices. The phenotype may vary somewhat with variations
in environmental conditions 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 ‘Pachafmag’.
These characteristics in combination distinguish
‘Pachafmag’ as a new and distinct Ivy Geranium plant:

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1. Uniformly mounded and cascading to trailing plant
habit.
2. Vigorous growth habit.
3. Freely basal branching habit.
4. Freely flowering habit.
5. Dark red purple-colored single-type flowers held above
the foliar plane.

Plants of the new Ivy Geranium differ primarily from
plants of the parent selections in flower coloration. In addi-
tion, plants of the new Ivy Geranium are more uniform than
plants of the parent selections.

Plants of the new Ivy Geranium can be compared to plants
of the *Pelargonium peltatum* ‘Pachane’, disclosed in U.S.
Plant Pat. No. 21,847. In side-by-side comparisons conducted
in Dresden, Germany, plants of the new Ivy Geranium dif-
fered from plants of ‘Pachane’ in the following characteris-
tics:

1. Plants of the new Ivy Geranium had longer internodes
than plants of ‘Pachane’.
2. Leaves of plants of the new Ivy Geranium had a more
distinct zonation pattern than leaves of plants of
‘Pachane’.
3. Leaves, leaf petioles and peduncles of plants of the new
Ivy Geranium were more pubescent than leaves, leaf
petioles and peduncles of plants of ‘Pachane’.
4. Plants of the new Ivy Geranium and ‘Pachane’ differed in
flower color as plants of ‘Pachane’ had light purple-
colored flowers.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the over-
all appearance of the new Ivy 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 Ivy Geranium plant.

The photograph comprises a close-up side perspective view of a typical flowering plant of 'Pachafmag' 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 summer and autumn in a glass-covered greenhouse in Dresden, Germany and under cultural practices typical of commercial Ivy Geranium production. During the production of the plants, day temperatures ranged from 18° C. to 20° C., night temperatures averaged 18° C. and light levels ranged from 15 kilolux to 100 kilolux. Plants were pinched two times and were seven 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 peltatum* 'Pachafmag'.
Parentage:

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

Male or pollen parent.—Unnamed proprietary selection of *Pelargonium peltatum*, 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 and growth habit.—Uniformly mounded and cascading to trailing plant habit; broad inverted triangle; densely foliated; vigorous growth habit; freely basal branching habit with about 25 lateral branches developing per plant.

Plant height, to top of umbels.—About 30 cm.

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

Plant width.—About 80 cm.

Lateral branches.—Length: About 70 cm. Diameter: About 4 cm. Internode length: About 3.5 cm. Texture: Slightly pubescent. Color: Close to 146A.

Leaf description:

Arrangement.—Opposite; simple.

Length.—About 3.5 cm.

Width.—About 6 cm.

Shape.—Palmately lobed.

Apex.—Acute.

Base.—Cordate, overlapping.

Margin.—Entire, lobed.

Venation pattern.—Palmate.

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

Color.—Developing and fully expanded leaves, upper surface: Close to 147A; venation, close to 147A. Developing and fully expanded leaves, lower surface: Close to 146A; venation, close to 146A. Zonation

pattern: Intensity: Distinct. Location: About 2.2 cm from margin. Width: About 1.2 cm. Color: Close to 200A.

Petioles.—Length: About 3 cm. Diameter: About 2 mm.

Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: Close to 146A.

Flower description:

Flower arrangement and flowering habit.—Single-type flowers arranged in roughly hemispherical umbels arising from apical leaf axils; umbels displayed above the foliar plane on strong flexible peduncles; flowers face upright to outwardly; freely flowering habit; about five flowers per umbel with about 40 umbels developing per plant.

Fragrance.—None detected.

Flowering season.—Early flowering habit, plants begin flowering about four months after planting; in the garden in Germany, flowering begins in May and continues until frost.

Flower longevity.—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 10 cm.

Flower diameter.—About 4.5 cm.

Flower depth (height).—About 1.5 cm.

Flower buds.—Length: About 1.5 cm. Diameter: About 6 mm. Shape: Spindle-shaped. Color: Close to 146A.

Petals.—Quantity per flower: Five arranged in a single whorl; two upper and three lower petals; petals somewhat imbricate. Length, upper petals: About 3.2 cm. Length, lower petals: About 2.7 cm. Width, upper petals: About 2 cm. Width, lower petals: About 2 cm. Shape, all petals: Obovate. Apex, all petals: Rounded. Base, all petals: Cuneate. Margin, all petals: Entire. Texture, all petals, upper and lower surfaces: Smooth, glabrous; velvety. Color, upper petals: When opening and fully opened, upper surface: Close to 74A and 60B; towards the base, close to 71A; venation, close to 71A; with development, color becoming closer to 74A. When opening and fully opened, lower surface: Close to 66D; towards the base, close to 71A; venation, close to 71C. Color, lower petals: When opening and fully opened, upper surface: Close to 74A; towards the base, close to 155D; venation, close to 71A; with development, color becoming closer to 74A. When opening and fully opened, lower surface: Close to 66D; towards the base, close to 155D; venation, close to 66D.

Sepals.—Quantity per flower: Five arranged in a single whorl. Length: About 1.5 cm. Width: About 6 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 tinted with close to 176A.

Peduncles (umbel stems).—Length: About 10 cm. Diameter: About 3 mm. Strength: Strong, flexible. Angle: Upright to outwardly slanted. Texture: Pubescent. Color: Close to 146A.

Pedicels (individual flower stems).—Length: About 4 cm. Diameter: About 2 mm. Strength: Strong; flexible. Texture: Pubescent. Color: Close to 176A.

Reproductive organs.—Androecium: Stamen quantity per flower: About ten. Anther length: About 2 mm. Anther shape: Tubular. Anther color: Close to 79A.

Pollen amount: Abundant. Pollen color: Close to 167A. Gynoecium: Pistil quantity per flower: One. Pistil length: About 1 cm. Stigma shape: Six-parted. Stigma color: Close to 59A. Style length: About 4 mm. Style color: Close to 62D. Ovary color: Close to 138D. Seeds and fruits: Seed and fruit development have not been observed on plants of the new Ivy Geranium.

Disease & pest resistance: Plants of the new Ivy Geranium have not been observed to be resistant to pathogens and pests common to Ivy Geraniums. Temperature tolerance: Plants of the new Ivy 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 Ivy Geranium plant named ‘Pachafimag’ as illustrated and described.

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