



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

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(54) **GERANIUM PLANT NAMED ‘KLEPZ05149’**

(50) Latin Name: *Pelargonium×hortorum*
Varietal Denomination: **KLEPZ05149**

(75) Inventor: **Nils Klemm**, Stuttgart (DE)

(73) Assignee: **Klemm + Sohn GmbH + Co. KG**,
Stuttgart (DE)

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patent is extended or adjusted under 35
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(52) **U.S. Cl.** **Plt./325**

(58) **Field of Classification Search** Plt./325
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP11,620 P * 11/2000 Klemm Plt./329

* cited by examiner

Primary Examiner—Wendy Haas
(74) *Attorney, Agent, or Firm*—C. A. Whealy

(57) **ABSTRACT**

A new and distinct cultivar of Zonal *Geranium* plant named
‘KLEPZ05149’, characterized by its upright and rounded
plant habit; freely branching habit; leaves with a distinct
zonation pattern; freely flowering habit; semi-double dark
pink-colored flowers with white centers; and good garden
performance.

1 Drawing Sheet

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Botanical designation: *Pelargonium×hortorum*.
Cultivar Denomination: ‘KLEPZ05149’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of Zonal *Geranium*, botanically known as *Pelargonium×*
hortorum, and hereinafter referred to by the name
‘KLEPZ05149’.

The new Zonal *Geranium* is a product of a planned
breeding program conducted by the Inventor in Stuttgart,
Germany. The objective of the breeding program is to create
new freely-branching and uniform Zonal *Geranium* culti-
vars with early flowering habit and attractive foliage and
flower coloration.

The new Zonal *Geranium* originated from a cross-
pollination made by the Inventor in Stuttgart, Germany in
1998 of a proprietary selection of *Pelargonium×hortorum*
identified as code number Z L 262, not patented, as the
female, or seed, parent with a proprietary selection of
Pelargonium×hortorum identified as code number Z 97 233
001, not patented, as the male, or pollen, parent. The cultivar
KLEPZ05149 was discovered and selected by the Inventors
as a single flowering plant from within the progeny of the
stated cross-pollination in a controlled environment in
Stuttgart, Germany in 1999.

Asexual reproduction of the new Zonal *Geranium* by
vegetative terminal cuttings in a controlled environment in
Stuttgart, Germany since June, 1999, 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

The cultivar KLEPZ05149 has 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.

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The following traits have been repeatedly observed and
are determined to be the unique characteristics of
‘KLEPZ05149’. These characteristics in combination dis-
tinguish ‘KLEPZ05149’ as a new and distinct cultivar of
Zonal *Geranium*:

1. Upright and rounded plant habit.
2. Freely branching habit.
3. Leaves with a distinct zonation pattern.
4. Freely flowering habit.
5. Semi-double park pink-colored flowers with white
centers.
6. Good garden performance.

Plants of the new Zonal *Geranium* differ primarily from
plants of the female parent selection in the following char-
acters:

1. Plants of the new *Geranium* are not as vigorous as
plants of the female parent selection.
2. Leaves of plants of the new *Geranium* have a distinct
zonation pattern whereas leaves of plants of the female
parent selection do not have a distinct zonation pattern.

Plants of the new Zonal *Geranium* differ primarily from
plants of the male parent selection in the following charac-
teristics:

1. Plants of the new *Geranium* are larger than plants of the
male parent selection.
2. Plants of the new *Geranium* and the male parent
selection differ in flower color as plants of the male
parent selection have salmon pink-colored flowers.

Plants of the new Zonal *Geranium* can be compared to
plants of the *Pelargonium×hortorum* cultivar ‘Kleleny’,
disclosed in U.S. Plant Pat. No. 11,620. In side-by-side
comparisons conducted in Stuttgart, Germany, plants of the
new Zonal *Geranium* differed from plants of the cultivar
Kleleny in the following characteristics:

1. Plants of the new Zonal *Geranium* were larger than
plants of the cultivar Kleleny.

2. Plants of the new Zonal *Geranium* flowered earlier than plants of the cultivar Kleleny.
3. Plants of the new Zonal *Geranium* and the cultivar Kleleny differed in flower color as plants of the cultivar Kleleny had blue pink-colored flowers.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new Zonal *Geranium*, 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 typical flowering plants of 'KLEPZ05149' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The photographs and following observations, measurements and values describe plants grown in Stuttgart, Germany in a glass-covered greenhouse during the summer and autumn and under conditions which closely approximate commercial *Geranium* production. During the production of the plants, day temperatures ranged from 18° C. to 22° C., night temperatures ranged from 14° C. to 18° C. and light levels ranged from 20,000 lux to 55,000 lux. Plants were about 2.5 months old when the photograph and the description were taken. In the detailed description, color references are made to The Royal Horticultural Society Colour Chart, 2001 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Pelargonium×hortorum* cultivar KLEPZ05149.

Parentage:

Female, or seed, parent.—Proprietary selection of *Pelargonium×hortorum* identified as code number Z L 262, not patented.

Male or pollen parent.—Proprietary selection of *Pelargonium×hortorum* identified as code number Z 97 233 001, not patented.

Propagation:

Type.—By vegetative terminal cuttings.

Time to initiate roots, summer.—About nine days at temperatures of 22° C.

Time to initiate roots, winter.—About ten days at temperatures of 20° C.

Time to produce a rooted young plant, summer.—About 18 days at temperatures of 22° C.

Time to produce a rooted young plant, winter.—About 20 days at temperatures of 20° C.

Root description.—Medium in thickness, fibrous; white in color.

Rooting habit.—Freely branching, moderately dense.

Plant description:

Plant/growth habit.—Upright to rounded plant habit; densely foliated. Moderately vigorous growth habit. Freely basal branching habit with about four to five lateral branches per plant.

Plant height, to top of umbels.—About 24 cm to 26 cm.

Plant height, to top of leaves.—About 17 cm to 21 cm.

Plant width.—About 20 cm to 23 cm.

Lateral branches.—Length: About 8 cm. Internode length: About 0.7 cm to 1.2 cm. Texture: Slightly pubescent. Color: 137D.

Foliage description:

Arrangement.—Alternate; simple.

Length.—About 6 cm.

Width.—About 8 cm.

Shape.—Reniform.

Apex.—Rounded.

Base.—Cordate.

Margin.—Crenate.

Venation pattern.—Palmate.

Texture, upper and lower surfaces.—Slightly pubescent; rough.

Color.—Developing and fully expanded foliage, upper surface: 137C; venation, 138B. Developing and fully expanded foliage, lower surface: 137D; venation, 138B. Zonation pattern: Distinct. Location of zone: About 5 mm to 8 mm from leaf margin. Width: About 1 cm to 1.2 cm. Color: 147A. Petiole: Length: About 6.5 cm. Diameter: About 3 mm. Texture, upper and lower surfaces: Rough. Color, upper and lower surfaces: 143C.

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 slightly cupped. Flowers not persistent. Flowers not fragrant.

Quantity of flowers.—Freely flowering habit; about 25 to 40 flower buds and open flowers per umbel.

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

Flower longevity.—Individual flowers last about four to ten days on the plant.

Umbel height.—About 11 cm.

Umbel diameter.—About 7 cm to 12 cm.

Flower diameter.—About 4.5 cm.

Flower depth (height).—About 1 cm to 2 cm.

Flower buds.—Length: About 1 cm to 1.4 cm. Diameter: About 5 mm to 10 mm. Shape: Elliptic. Color: 138B.

Petals.—Quantity per flower: About six to eight. Length: About 2.5 cm. Width: About 1.8 cm. Shape: Ovate. Apex: Rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening and fully opened, upper surface: 74B; towards the base, 68C; at base, close to 155D; venation, 74A; color becoming closer to 80C with development. When opening and fully opened, lower surface: 74C; towards the base, 68D; venation, 74A.

Petaloids.—Quantity per flower; None to about five. Length: About 3 mm to 10 mm. Width: About 1 mm to 5 mm. Shape: Irregularly shaped. Apex: Rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening and fully opened, upper surface: 74B; towards the base, 68C; at base, close to 155D; venation, 74A; color becoming closer to 80C with development. When opening and fully opened, lower surface: 74C; towards the base, 68D; venation, 74A.

Sepals.—Quantity per flower: Five, arranged in a single whorl. Length: About 8 mm to 10 mm. Width: About 3 mm. Shape: Elliptic. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper and lower surfaces: Rough. Color, upper and lower surfaces: 138B.

Peduncle (umbel stem).—Length: About 12 cm to 17 cm. Diameter: About 6 mm. Strength: Strong. Angle: Mostly erect. Texture: Slightly pubescent. Color: 137D tinted with 178B.

Pedicel (individual flower stem).—Length: About 2.5 cm. Diameter: About 1.5 cm. Strength: Moderately strong. Angle: Erect to about 110° C. from vertical. Texture: Slightly pubescent. Color: 173B.

Reproductive organs.—Androecium: Stamen quantity per flower: About five. Anther length: About 4 mm. Anther shape: Ovate. Anther color: 33C. Pollen amount: Moderate. Pollen color: 33C. Gynoecium: Pistil quantity per flower: One. Pistil length: about 5 mm to 10 mm. Stigma shape: Tapering; reflexed.

Stigma color: 74A. Style length: About 3 mm to 5 mm. Style color: 74A. Ovary color: 138D.

Seed.—Seed development has not been observed.

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 6° C. to about 34° C. and have demonstrated good garden performance.

It is claimed:

1. A new and distinct *Zonal Geranium* plant named ‘KLEPZ05149’ as illustrated and described.

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