



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

(10) **Patent No.: US PP18,628 P2**
(45) **Date of Patent: Mar. 18, 2008**

(54) **GERANIUM PLANT NAMED ‘KLEPZ05141’**

(50) Latin Name: *Pelargonium×hortorum*
Varietal Denomination: **KLEPZ05141**

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

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

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **11/527,872**

(22) Filed: **Sep. 27, 2006**

(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./330**

(58) **Field of Classification Search** **Plt./330**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS
PP7,016 P * 9/1989 Klemm Plt./330

OTHER PUBLICATIONS
UPOV ROM GTITM Computer Database, GTI Jouve
Retrieval Software 2007/02 Citations for ‘KLEPZ05141’.*

* 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
‘KLEPZ05141’, characterized by its upright and rounded
plant habit; freely branching habit; leaves with a distinct
zonation pattern; freely flowering habit; semi-double bright
red-colored flowers; and good garden performance.

1 Drawing Sheet

1

Botanical designation: *Pelargonium×hortorum*.
Cultivar denomination: ‘KLEPZ05141’.

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
‘KLEPZ05141’.

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
2001 of a proprietary selection of *Pelargonium×hortorum*
identified as code number F 012, not patented, as the female,
or seed, parent with a proprietary selection of *Pelargonium×*
hortorum identified as code number ZL 471, not patented, as
the male, or pollen, parent. The cultivar KLEPZ05141 was
discovered and selected by the Inventors as a single flow-
ering plant from within the progeny of the stated cross-
pollination in a controlled environment in Stuttgart, Ger-
many in June, 2002.

Asexual reproduction of the new Zonal *Geranium* by
vegetative terminal cuttings in a controlled environment in
Stuttgart, Germany since 2002, has shown that the unique
features of this new Zonal *Geranium* are stable and repro-
duced true to type in successive generations.

SUMMARY OF THE INVENTION

The cultivar KLEPZ05141 has not been observed under
all possible environmental conditions. The phenotype may
vary somewhat with variations in environment and cultural

2

practices 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
‘KLEPZ05141’. These characteristics in combination dis-
tinguish ‘KLEPZ05141’ 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 bright red-colored flowers.
6. Good garden performance.

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

1. 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.
2. Plants of the new *Geranium* and the female parent
selection differ in flower color as plants of the female
parent selection have dark red-colored flowers.

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 less vigorous 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 light red-colored flowers.

Plants of the new Zonal *Geranium* can be compared to
plants of the *Pelargonium×hortorum* cultivar ‘Klesatha’,
disclosed in U.S. Plant patent application Ser. No. 09/250,
007 now abandoned. In side-by-side comparisons conducted

in Stuttgart, Germany, plants of the new *Zonal Geranium* differed from plants of the cultivar Klesatha in the following characteristics:

1. Plants of the new *Zonal Geranium* were less compact than plants of the cultivar Klesatha.
2. Leaves of plants of the new *Zonal Geranium* had a distinct zonation pattern whereas leaves of plants of the cultivar Klesatha did not have a distinct zonation pattern.
3. Plants of the new *Zonal Geranium* and the cultivar Klesatha differed in flower color as plants of the cultivar Klesatha had darker red-colored flowers.

Plants of the new *Zonal Geranium* can also be compared to plants of the *Pelargonium×hortorum* cultivar Kledap, disclosed in U.S. Plant Pat. No. 7,016. In side-by-side comparisons conducted in Stuttgart, Germany, plants of the new *Zonal Geranium* differed from plants of the cultivar Kledap in the following characteristics:

1. Plants of the new *Zonal Geranium* were less vigorous than plants of the cultivar Kledap.
2. Plants of the new *Zonal Geranium* and the cultivar Kledap differed in flower color as plants of the cultivar Kledap had orange red-colored flowers.
3. Plants of the new *Geranium* had better garden performance than plants of the cultivar Kledap.

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 'KLEPZ05141' 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 KLEPZ05141.

Parentage:

Female, or seed, parent.—Proprietary selection of *Pelargonium×hortorum* identified as code number F 012, not patented.

Male or pollen parent.—Proprietary selection of *Pelargonium×hortorum* identified as code number ZL 471, 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 27 cm.

Plant height, to top of leaves.—About 18 cm to 24 cm.

Plant width.—About 20 cm to 23 cm.

Lateral branches.—Length: About 7 cm to 8 cm.

Internode length: About 0.7 cm to 1.5 cm. Texture: Slightly pubescent. Color: 143B.

Foliage description:

Arrangement.—Alternate; simple.

Length.—About 6 cm to 8 cm.

Width.—About 7 cm to 9 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: 137B; venation, 137C. Developing and fully expanded foliage, lower surface: 137C; venation, 137D. Zonation pattern: Distinct. Location of zone: About 1 cm from leaf margin. Width: About 1 cm. Color: 166A. Petiole: Length: About 5 cm to 9 cm. Diameter: About 2 mm. Texture, upper and lower surfaces: Rough. Color, upper and lower surfaces: 137D.

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 45 to 50 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 6 cm to 8 cm.

Umbel diameter.—About 7 cm to 9 cm.

Flower diameter.—About 4.5 cm.

Flower depth (height).—About 1.5 cm.

Flower buds.—Length: About 5 mm to 10 mm. Diameter: About 3 mm to 6 mm. Shape: Elliptic. Color: 137D.

Petals.—Quantity per flower: About seven. Length: About 2.5 cm. Width: About 2 cm. Shape: Ovate. Apex: Rounded. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, gla-

5

brous; velvety. Color: When opening, upper and lower surfaces: 44A. Fully opened, upper surface: 44A; venation, 44A; color becoming closer to 44C with development. Fully opened, lower surface: 44A; towards the base, 43D; venation, 44A.

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, upper and lower surfaces: 44A. Fully opened, upper surface: 44A; venation, 44A; color becoming closer to 44D with development. Fully opened, lower surface: 44A; towards the base, 43D; venation, 44A.

Sepals.—Quantity per flower: Five, arranged in a single whorl. Length: About 9 mm to 10 mm. Width: About 2 mm to 3 mm. Shape: Elliptic. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper and lower surfaces: Rough. Color, upper and lower surfaces: 137D.

Peduncle (umbel stem).—Length: About 15 cm to 19 cm. Diameter: About 4 mm. Strength: Strong. Angle: Mostly erect. Texture: Slightly pubescent. Color: 137B tinted with 174B.

6

Pedice (individual flower stem).—Length: About 2 cm to 2.5 cm. Diameter: About 1.5 mm. Strength: Moderately strong. Angle: Erect to about 110° C. from vertical. Texture: Slightly pubescent. Color: 174A.

Reproductive organs.—Androecium: Stamen quantity per flower: About five. Anther length: About 4 mm. Anther shape: Ovate. Anther color: 43C. Pollen amount: Moderate. Pollen color: 32B. Gynoecium: Pistil quantity per flower: One. Pistil length: About 6 mm. Stigma shape: Tapering; reflexed. Stigma color: 44C. Style length: About 2 mm. Style color: 44C. Ovary color: 138C.

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 'KLEPZ05141' as illustrated and described.

* * * * *

