



(12) **United States Plant Patent**  
**Monte-Michielsen**

(10) **Patent No.:** **US PP29,483 P2**  
(45) **Date of Patent:** **Jul. 10, 2018**

(54) **GERANIUM PLANT NAMED ‘TOSCAT0542’**

(50) Latin Name: *Pelargonium x hortorum*  
Varietal Denomination: **Toscat0542**

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(\* ) 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.: **15/530,924**

(22) Filed: **Mar. 23, 2017**

(51) **Int. Cl.**  
*A01H 5/02* (2018.01)

(52) **U.S. Cl.**  
USPC ..... **Plt./325**

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

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(57) **ABSTRACT**

A new and distinct cultivar of Geranium plant named  
‘Toscat0542’, characterized by its semi-double type, white  
and red-purple bicolored flowers, medium green-colored  
foliage, and moderately vigorous, upright-mounded growth  
habit, is disclosed.

**1 Drawing Sheet**

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Latin name of genus and species of plant claimed: *Pelargonium x hortorum*.

Variety denomination: ‘Toscat0542’.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of Geranium plant botanically known as *Pelargonium x*  
*hortorum* and hereinafter referred to by the cultivar name  
‘Toscat0542’.

The new cultivar originated in a controlled breeding  
program in Hendrik-Ido-Ambacht, The Netherlands during  
August 2013. The objective of the breeding program was the  
development of Geranium cultivars that flower uniformly  
with attractive flower coloration and a moderately vigorous,  
upright-mounded growth habit.

The new Geranium cultivar is the result of cross-pollina-  
tion. The female (seed) parent of the new cultivar is  
FLOWER FAIRY White Splash ‘Swewhi’, U.S. Plant Pat.  
No. 20,405, characterized by its semi-double type, pale pink  
and red-purple bicolored flowers, dark green-colored foliage,  
and vigorous, upright to rounded growth habit. The male  
(pollen) parent of the new cultivar is AMERICANA  
Pink Mega Splash ‘Amri Pikegs’, U.S. Plant Pat. No. 20,481,  
characterized by its single type, pink-colored flowers having  
bold red-purple blotch, medium green-colored foliage, and  
moderately vigorous, upright and rounded growth habit. The  
new cultivar was discovered and selected as a single flowering  
plant within the progeny of the above stated cross-pollination  
during May 2014 in a controlled environment in Hendrik-Ido-  
Ambacht, The Netherlands.

Asexual reproduction of the new cultivar by terminal stem  
cuttings since May 2014 in Hendrik-Ido-Ambacht, The  
Netherlands, Arroyo Grande, Calif. and West Chicago, Ill.  
has demonstrated that the new cultivar reproduces true to  
type with all of the characteristics, as herein described,  
firmly fixed and retained through successive generations of  
such asexual propagation.

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**SUMMARY OF THE INVENTION**

The following characteristics of the new cultivar have  
been repeatedly observed and can be used to distinguish  
‘Toscat0542’ as a new and distinct cultivar of Geranium  
plant:

1. Semi-double type, white and red-purple bicolored  
flowers;
2. Medium green-colored foliage; and
3. Moderately vigorous, upright-mounded growth habit.

Plants of the new cultivar differ from plants of the female  
parent primarily in having larger leaves, slightly different  
flower color and lower growth vigor. Plants of the new  
cultivar differ from plants of the male parent primarily in  
having a different flower type, slightly different flower color  
and darker leaf color.

Of the many commercially available Geranium cultivars,  
the most similar in comparison to the new cultivar is  
Dynamo Raspberry Sizzle ‘KLEPZ07197’, U.S. Plant Pat.  
No. 20,036. However, in side by side comparisons, plants of  
the new cultivar differ from plants of ‘KLEPZ07197’ in at  
least the following characteristics:

1. Plants of the new cultivar have a flower color different  
from plants of ‘KLEPZ07197’;
2. Plants of the new cultivar smaller diameter umbels than  
plants of ‘KLEPZ07197’; and
3. Plants of the new cultivar have larger leaves than plants  
of ‘KLEPZ07197’.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying photographs show, as nearly true as it  
is reasonably possible to make the same in color illustrations  
of this type, typical flower and foliage characteristics of the  
new cultivar. Colors in the photographs differ slightly from  
the color values cited in the detailed description, which  
accurately describes the colors of ‘Toscat0542’. The plants  
were grown in 4.5-inch pots for 9 weeks in a greenhouse in  
West Chicago, Ill.

FIG. 1 illustrates a side view of the overall growth and flowering habit of ‘Toscat0542’.

FIG. 2 illustrates a close-up view of an individual umbel of ‘Toscat0542’.

FIG. 3 illustrates a close-up view of an individual leaf of ‘Toscat0542’.

#### DETAILED BOTANICAL DESCRIPTION

The new cultivar has not been observed under all possible environmental conditions to date. Accordingly, it is possible that the phenotype may vary somewhat with variations in the environment, such as temperature, light intensity, and day length, without, however, any variance in genotype.

The chart used in the identification of colors described herein is The R.H.S. Colour Chart of The Royal Horticultural Society, London, England, 2015 edition, except where general color terms of ordinary significance are used. The color values were determined in December 2016 under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe plants produced from cuttings from stock plants and grown in a glass-covered greenhouse under conditions comparable to those used in commercial practice. The plants were grown in West Chicago, Ill. in 4.5-inch pots for 9 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 70° F. to 77° F. (21° C. to 25° C.) during the day and approximately 65° F. to 68° F. (18° C. to 20° C.) during the night. Greenhouse light levels of 2,500 footcandles to 6,000 footcandles were maintained during the day. Measurements and numerical values represent averages of typical plants.

Botanical classification: *Pelargonium* x *hortorum* cultivar Toscat0542.

Parentage:

*Female parent*.—FLOWER FAIRY White Splash ‘Swewhi’, U.S. Plant Pat. No. 20,405.

*Male parent*.—AMERICANA Pink Mega Splash ‘Amri Pikegs’, U.S. Plant Pat. No. 20,481.

Propagation:

*Type cutting*.—Terminal stem.

*Time to initiate roots*.—Approximately 9 to 12 days.

*Time to produce a rooted cutting*.—Approximately 24 to 28 days.

*Root description*.—Fibrous.

*Rooting habit*.—Freely branching.

Plant description:

*Commercial crop time*.—Approximately 8 to 9 weeks from a rooted cutting to finish in a 10 cm pot.

*Growth habit and general appearance*.—Moderately vigorous, upright-mounded.

*Size*.—Height from soil level to top of plant plane: Approximately 21.0 cm. Height from soil level to top of foliage: Approximately 14.5 cm. Width: Approximately 24.0 cm.

*Branching habit*.—Freely basal branching. Quantity of main branches per plant: Approximately 4.

*Branch*.—Strength: Strong. Length: Approximately 5.5 cm. Diameter: Approximately 7.0 mm. Length of central internode: Approximately 8.0 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color of young and mature stem: 146C.

Foliage description:

*General description*.—Quantity of leaves per lateral branch: Approximately 8. Fragrance: Slight. Form: Simple. Arrangement: Opposite.

*Leaves*.—Aspect: Petiole is at an acute angle to stem, blade is primarily perpendicular to stem. Shape: Reniform. Margin: Bicrenate, palmately lobed, somewhat wavy. Apex: Obtuse. Base: Cordate. Venation pattern: Palmate. Length of mature leaf: Approximately 9.5 cm. Width of mature leaf: Approximately 10.5 cm. Texture of upper and lower surfaces: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color of upper surface of young foliage: Closest to 137A with venation of 146C. Color of lower surface of young foliage: 147B with venation of 146D. Color of upper surface of mature foliage: Closest to NN137A with venation of 146B, no zonal coloration observed. Color of lower surface of mature foliage: Closest to 147B with venation of 146D.

*Petiole*.—Length: Approximately 6.5 cm. Diameter: Approximately 2.5 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color: 146B.

Flowering description:

*Flowering habit*.—‘Toscat0542’ is freely flowering under outdoor growing conditions with substantially continuous blooming from spring through autumn and year-round in greenhouse environment.

*Lastingness of individual flower on the plant*.—Approximately 12 to 14 days.

Inflorescence description:

*General description*.—Type: Umbel, semi-spherical. Positioned above foliage. Quantity of fully open umbels per plant: Approximately 2. Quantity of developing umbels per plant: Approximately 1. Fragrance: None detected. Length or height: Approximately 6.5 cm. Width: Approximately 10.0 cm. Quantity of fully open flowers per inflorescence: Approximately 13.

*Peduncle*.—Strength: Strong. Aspect: Erect. Length: Approximately 12.0 cm. Diameter: Approximately 4.0 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color: 146B.

Flower description:

*General description*.—Type: Semi-double.

*Bud*.—Rate of opening: Generally takes 3 to 4 days for bud to progress from first color to fully open flower.

*Bud just before opening*.—Shape: Elliptic. Length: Approximately 1.3 cm. Width: Approximately 6.0 mm. Sepal texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Petal texture: Glabrous. Petal color: 56D.

*Corolla*.—Shape: Round. Diameter: Approximately 5.0 cm. Depth: Approximately 2.4 cm.

*Petals*.—Quantity: Approximately 5 to 6 petals and 3 to 5 irregularly-shaped petaloids per flower. Shape: Obovate. Appearance: Dull. Margin: Entire. Apex: Obtuse. Base: Attenuate. Length of upper petals: Approximately 2.9 cm. Width of upper petals: Approximately 2.5 cm. Length of lower petals: Approximately 2.7 cm. Width of lower petals: Approximately 2.7 cm. Texture of upper and lower

surfaces: Glabrous. Color of upper surface of upper petals when fully open: NN155D with a central spot of N66C and venation of 71A at base; NN155D often tinted with N66D when opening. Color of lower surface of upper petals when fully open: NN155D 5  
venation of 71B at base. Color of upper surface of lower petals when fully open: NN155D with a central spot of N66A. Color of lower surface of lower petals when fully open: NN155D.

*Calyx*.—Shape: 5-pointed star. Diameter: Approximately 2.3 cm. 10

*Sepals*.—Quantity per flower: Approximately 5, fused at base. Shape: Lanceolate. Margin: Entire. Apex: Acuminate. Length of upper sepal: Approximately 1.1 cm. Width of upper sepal: Approximately 4.0 15  
mm. Length of lower sepals: Approximately 1.2 cm. Width of lower sepals: Approximately 3.0 mm. Texture of upper surface: Glabrous. Texture of lower surface: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, 20  
transparent. Color of upper and lower surfaces: 144A.

*Pedicel*.—Strength: Strong. Aspect: Acute angle to peduncle. Length: Approximately 2.3 cm. Diameter: Approximately 2.0 mm. Texture: Densely pubescent 25

with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color: 144A.

*Reproductive organs*.—Androecium: Quantity of mature stamens: Approximately 6 to 8 per flower. Anther shape: Oblong. Anther length: Approximately 2.0 mm. Anther color: 71B. Filament length: Approximately 7.0 mm. Filament color: NN155D with an overlay of 71A near anther. Pollen amount: Moderate. Pollen color: 32A. Gynoecium: Pistil quantity: 1 per flower. Pistil length: Approximately 9.0 mm. Stigma shape: 5 branched. Stigma length: Approximately 2.0 mm. Stigma color: 186A. Style length: Approximately 3.0 mm. Style color: 155B. Ovary length: Approximately 5.0 mm. Ovary texture: Densely pubescent. Ovary color: 144A.

Seed and fruit production: Neither seed nor fruit production has been observed.

Disease and pest resistance: Resistance to pathogens and pests common to *Geranium* has not been observed.

What is claimed is:

1. A new and distinct cultivar of *Geranium* plant named 'Toscat0542', substantially as herein illustrated and described.

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FIG. 1

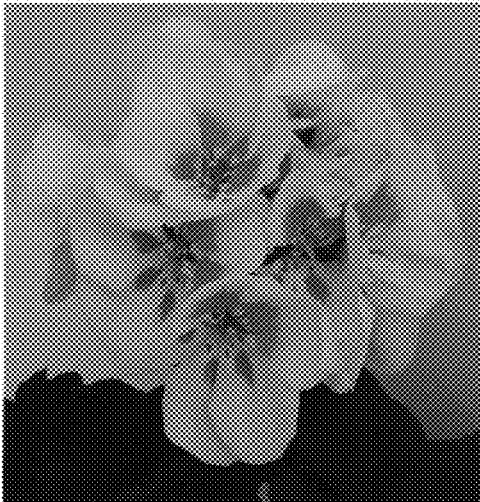


FIG. 2



FIG. 3