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Monte-Michielsen

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(54) **GERANIUM PLANT NAMED ‘TOSTD0460’**

(50) Latin Name: *Pelargonium x hortorum*
Varietal Denomination: **TOSTD0460**

(71) Applicant: **Ball Horticultural Company**, West
Chicago, IL (US)

(72) Inventor: **Fabienne Monte-Michielsen**, Brielle
(NL)

(73) Assignee: **Ball Horticultural Company**, West
Chicago, IL (US)

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

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(58) **Field of Classification Search**

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See application file for complete search history.

Primary Examiner — Susan McCormick Ewoldt

Assistant Examiner — Karen M Redden

(74) *Attorney, Agent, or Firm* — Audrey Charles

(57)

ABSTRACT

A new and distinct cultivar of Geranium plant named
‘TOSTD0460’, characterized by its semi-double type, deep
reddish-purple colored flowers, medium green-colored foliage
with zonation, and 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: ‘TOSTD0460’.

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
‘TOSTD0460’.

The new cultivar originated in a controlled breeding
program in Hendrik-Ido-Ambacht, The Netherlands during
July 2015. The objective of the breeding program was the
development of heat-tolerant Geranium cultivars with semi-
double type flowers having attractive flower coloration, and
a 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 the
proprietary *Pelargonium x hortorum* breeding selection
coded TB0378, not patented, characterized by its semi-
double type, dark hot pink colored flowers, medium green-
colored foliage, low growth vigor, and upright-mounded
growth habit. The male (pollen) parent of the new cultivar is
Eco Neon Rose ‘Genedona’, not patented, characterized by
its semi-double type, dark hot pink colored flowers, medium
green-colored foliage, and moderately vigorous, upright-
mounded growth habit. The new cultivar was discovered and
selected as a single flowering plant within the progeny of the
above stated cross-pollination during August 2016 in a
controlled environment in Hendrik-Ido-Ambacht, The Neth-
erlands.

Asexual reproduction of the new cultivar by terminal stem
cuttings since August 2016 in Hendrik-Ido-Ambacht, The
Netherlands and Arroyo Grande, Calif. 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
‘TOSTD0460’ as a new and distinct cultivar of Geranium
plant:

1. Semi-double type, deep reddish-purple colored flowers;
2. Medium green-colored foliage with zonation; and
3. Vigorous, upright-mounded growth habit.

Plants of the new cultivar differ from plants of the female
and male parents primarily in having a flower color with
more purple coloration and higher growth vigor.

Of the many commercially available Geranium cultivars,
the most similar in comparison to the new cultivar is Big
Ezee Fuchsia Blue ‘Duebezfubuimp’, U.S. Plant Pat. No.
27,853. However, in comparison, plants of the new cultivar
differ from plants of ‘Duebezfubuimp’ in at least the fol-
lowing characteristics:

1. Plants of the new cultivar have a flower color that has
more reddish-purple color than plants of ‘Duebez-
fubuimp’;
2. Plants of the new cultivar have more petals per flower
than plants of ‘Duebezfubuimp’; and
3. Plants of the new cultivar are shorter than plants of
‘Duebezfubuimp’.

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 may differ slightly
from the color values cited in the detailed description, which
accurately describes the colors of ‘TOSTD0460’. The plants
were approximately 4 months old and grown in 4.5-inch pots
for approximately 13 weeks in a greenhouse in West Chi-
cago, Ill.

FIG. 1 illustrates a side view of the overall growth and flowering habit of 'TOSTD0460'.

FIG. 2 illustrates a close-up view of an individual umbel of 'TOSTD0460'.

FIG. 3 illustrates a close-up view of an individual leaf of 'TOSTD0460'.

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 March 2019 under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe approximately 4-month old 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 approximately 13 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 67° F. to 72° F. (19° C. to 22° C.) during the day and approximately 65° F. to 68° F. (18° C. to 20° C.) during the night. Supplemental lighting was used. Measurements and numerical values represent averages of typical plants.

Botanical classification: *Pelargonium* x *hortorum* 'TOSTD0460'.

Parentage:

Female parent.—Proprietary *Pelargonium* x *hortorum* breeding selection coded TB0378, not patented.

Male parent.—Eco Neon Rose 'Genedona', not patented.

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.—Vigorous, upright-mounded.

Size.—Height from soil level to top of plant plane: Approximately 29.0 cm. Height from soil level to top of foliage: Approximately 13.0 cm. Width: Approximately 32.0 cm.

Branching habit.—Freely basal branching. Quantity of main branches per plant: Approximately 3.

Branch.—Strength: Strong. Length: Approximately 8.5 cm. Diameter: Approximately 8.0 mm. Length of central internode: Approximately 1.0 cm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: 17D and colorless, transparent. Color of young and mature stem: 146C.

Foliage description:

General description.—Quantity of leaves per lateral branch: Approximately 9. Fragrance: Moderate. 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, moderately wavy. Apex: Obtuse. Base: Cordate. Venation pattern: Palmate. Length of mature leaf: Approximately 8.0 cm. Width of mature leaf: Approximately 9.0 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 137B with a faint overlay of NN137A on zonal area of approximately outer two thirds of leaf, venation of 146C. Color of lower surface of young foliage: 147B with venation of 146D. Color of upper surface of mature foliage: Closest to 137A with an overlay of NN137A on zonal area of approximately outer two thirds of leaf, venation of 146C. Color of lower surface of mature foliage: Closest to 147B with venation of 146D.

Petiole.—Length: Approximately 7.5 cm. Diameter: Approximately 2.5 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: 17D and colorless, transparent. Color: 146A.

Flowering description:

Flowering habit.—'TOSTD0460' 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 2. Fragrance: None detected. Length or height: Approximately 6.0 cm. Width: Approximately 10.5 cm. Quantity of fully open flowers per inflorescence: Approximately 15.

Peduncle.—Strength: Strong. Aspect: Erect. Length: Approximately 16.0 cm. Diameter: Approximately 4.0 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: 17D and 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 1.4 cm. Width: Approximately 9.0 mm. Sepal texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Petal texture: Glabrous. Petal color: NN78A.

Corolla.—Shape: Round. Diameter: Approximately 5.0 cm. Depth: Approximately 2.0 cm.

Petals.—Quantity: Approximately 7 to 9 petals and 1 to 2 irregularly-shaped petaloids per flower. Shape: Obovate. Appearance: Iridescent. Margin: Entire. Apex: Obtuse. Base: Attenuate. Length of upper

petals: Approximately 2.8 cm. Width of upper petals: Approximately 2.2 cm. Length of lower petals: Approximately 2.3 cm. Width of lower petals: Approximately 2.1 cm. Texture of upper and lower surfaces: Glabrous. Color of upper surface of upper petals when fully open: Approximately NN74A and NN78B with NN155D and venation of NN78A at base. Color of lower surface of upper petals when fully open: NN74B with venation of 61A. Color of upper surface of lower petals when fully open: NN74A and NN78B with a small area of NN155D at base. Color of lower surface of lower petals when fully open: NN74B with venation of 61B.

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

Sepals.—Quantity per flower: Approximately 5, fused at base. Shape: Lanceolate. Margin: Entire. Apex: Acuminate. Length of upper sepal: Approximately 1.3 cm. Width of upper sepal: Approximately 5.0 mm. Length of lower sepals: Approximately 1.4 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, transparent. Color of upper and lower surfaces: 146D tinted with 187B.

Pedicel.—Strength: Strong. Aspect: Acute angle to peduncle. Length: Approximately 2.6 cm. Diameter:

Approximately 2.0 mm. Texture: Densely pubescent with a mixture of glandular and nonglandular hairs. Gland color: Colorless, transparent. Color: 146D with a heavy overlay of 187A.

Reproductive organs.—Androecium: Quantity of mature stamens: Approximately 10 per flower. Anther shape: Oblong. Anther length: Approximately 2.0 mm. Anther color: 71B. Filament length: Approximately 8.0 mm. Filament color: NN155D with an overlay of 71B near anther. Pollen amount: Moderate. Pollen color: 32A. Gynoecium: Pistil quantity: 1 per flower. Pistil length: Approximately 1.0 cm. Stigma shape: 5-branched. Stigma length: Approximately 3.0 mm, curled. Stigma color: 71A. Style length: Approximately 3.0 mm. Style color: 71A. Ovary length: Approximately 6.0 mm. Ovary texture: Densely pubescent. Ovary color: 145A.

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 'TOSTD0460', substantially as herein illustrated and described.

* * * * *



FIG. 1

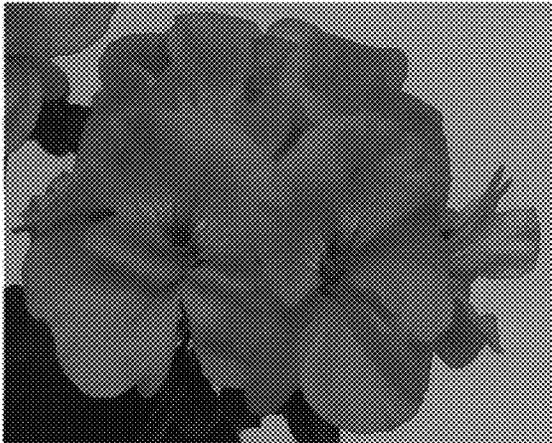


FIG. 2

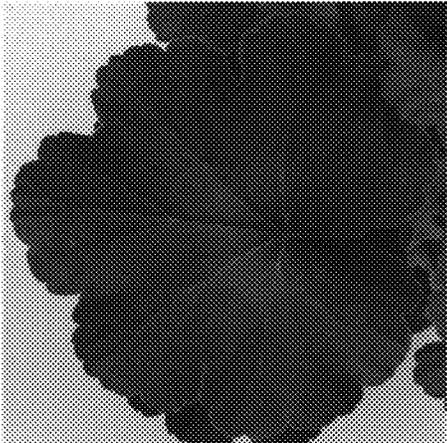


FIG. 3