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

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(54) **PELARGONIUM PLANT NAMED ‘PEQZ0027’**

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

(50) Latin Name: *Pelargonium interspecific*
Varietal Denomination: **PEQZ0027**

(52) **U.S. Cl.**
USPC **Plt./324**

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

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(57) **ABSTRACT**

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

A new *Pelargonium* plant named ‘PEQZ0027’ particularly distinguished by intense violet colored inflorescences held above the medium-green foliage, very heat and drought tolerant with continuous color through the most extreme summer heat, and exceptional edema tolerance on a well-branched plant habit.

(21) Appl. No.: **15/731,838**

(22) Filed: **Aug. 11, 2017**

1 Drawing Sheet

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Latin name of the genus and species of the plant claimed:
Pelargonium interspecific.

Varietal denomination: ‘PEQZ0027’.

BACKGROUND OF THE NEW PLANT

The present invention comprises a new *Pelargonium*, botanically known as *Pelargonium interspecific*, and hereinafter referred to by the variety name ‘PEQZ0027’.

‘PEQZ0027’ is a product of a planned breeding program. The new cultivar ‘PEQZ0027’ has violet colored inflorescences held above the medium-green foliage, very heat and drought tolerant with continuous color through the most extreme summer heat, and exceptional edema tolerance on a well-branched plant habit.

‘PEQZ0027’ originates from a hybridization in a controlled breeding program made in February 2013 in a greenhouse in Guatemala. The female parent was an unpatented, proprietary plant of *P. interspecific* parentage, identified as ‘10975-2’ with violet florets and smaller more open plant habit when compared to ‘PEQZ0027’.

The male parent of ‘PEQZ0027’ was an unpatented, proprietary plant of *P. interspecific* parentage, identified as ‘11295-2’ with violet florets and a more double flower form when compared to ‘PEQZ0027’. The resultant seed was sown in September 2013.

‘PEQZ0027’ was selected as one flowering plant within the progeny of the stated cross in January 2014 in a greenhouse in Gilroy, Calif.

The first act of asexual reproduction of ‘PEQZ0027’ was accomplished when vegetative cuttings were propagated from the initial selection in the March 2014 in a greenhouse in Gilroy, Calif.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings of the plant initiated in March 2014 in Gilroy, Calif., and continuing thereafter, has demonstrated that the combination

of characteristics as herein disclosed for ‘PEQZ0027’ are firmly fixed and are retained through successive generations of asexual reproduction.

‘PEQZ0027’ has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in environment such as temperature, light intensity, and day length.

A Plant Breeder’s Right for this cultivar has not been applied for. ‘PEQZ0027’ has not been made publicly available prior to the effective filing date of this application, notwithstanding any disclosure that may have been made less than one year prior to the effective filing date of this application by the inventor or another who obtained ‘PEQZ0027’ directly from the inventor.

The following traits have been repeatedly observed and are determined to be the basic characteristics of the new variety. The combination of these characteristics distinguishes this *Pelargonium* as a new and distinct variety.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographic drawing shows typical flower and foliage characteristics of ‘PEQZ0027’ with colors being as true as possible with an illustration of this type. The photographic drawing shows in FIG. 1, 3 flowering plants of the new variety and in FIG. 2, a close-up of an inflorescence.

DETAILED BOTANICAL DESCRIPTION

The plant descriptions and measurements were taken in Gilroy, Calif. in late March 2017 under natural light. These plants were approximately 12-14 weeks old and were grown in a 4.5 inch containers, in a greenhouse trial. The plants shown in the photographs were about 16 weeks old. The photographs were taken in April 2017.

Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.) 2001.

TABLE 1

DIFFERENCES BETWEEN THE NEW VARIETY 'PEQZ0027' AND A MOST SIMILAR VARIETY		
	'PEQZ0027'	'PEQZ0002' (U.S. Plant Pat. No.: 23,404)
Floret:	More double looking	More single looking
Floret petal color:	Violet with darker spot in petal	Lighter in color
Umbel diameter size:	Similar	Similar
Peduncle length:	Shorter	Longer

Plant:

Form, growth and habit.—Upright, outwardly spreading and rounded growth habit, heat and drought tolerant with continuous color through the most extreme summer heat, edema tolerance, well-branched plant habit.

Plant height.—18-23 cm.

Plant height (inflorescence included).—25-30 cm.

Plant width.—35-40 cm.

Roots:

Number of days to initiate roots.—15-18 days at about 22 degrees C.

Number of days to produce a rooted cutting.—21-23 days at 22 degrees C.

Type.—Fine, fibrous, free branching.

Color.—RHS N155B but whiter.

Foliage:

Immature leaf, color upper surface.—Closest to RHS 141A with a slightly lighter mottling.

Immature leaf, lower surface.—Closest to RHS 138A.

Mature leaf, color upper surface.—Closest to RHS 137A with slightly lighter mottling.

Mature leaf, color lower surface.—Closest to RHS 137C.

Length.—10-11.5 cm.

Width.—10.5-13.5 cm.

Shape.—Cordate.

Base shape.—Cordate.

Apex shape.—Acute.

Margin.—Slightly dentate.

Texture upper side.—Hirsute.

Texture lower side.—Hirsute.

Leaf zonation color.—None.

Color of veins, upper surface.—RHS 137C becoming indistinct.

Color of veins, lower surface.—RHS 137C becoming indistinct.

Pattern of veining.—Palmate.

Petiole color.—RHS 137C.

Petiole length.—6-9.0 cm.

Diameter of petiole.—0.25-0.3 cm.

Texture.—Pilose, hirsute, glandular hairs.

Stem:

Quantity of branches.—5-7.

Color of stem.—Between RHS 144A and RHS 144B.

Length of stem.—13-15 cm.

Diameter.—0.6-0.8 cm.

Length of internodes.—3.0-3.5 cm.

Texture.—Sparsely hirsute, pilose, glandular hairs.

Peduncle:

Color of peduncle.—RHS 137C.

Length of peduncle.—16-18 cm.

Peduncle diameter.—0.3-0.5 cm.

Texture.—Hirsute, glandular hairs.

Pedicel:

Color of pedicel.—Between RHS 144A overlain with RHS 59B.

Length of pedicel.—3.5-4.0 cm.

Diameter of pedicel.—0.1-0.15 cm.

Texture.—Sparsely pilose, glandular hairs.

Bud (just before opening):

Color.—Closest to RHS 64B.

Length.—2.0 cm.

Width.—0.8-1.0 cm.

Shape.—Elliptical.

Inflorescence:

Type.—Umbel; semi-spherical or nearly semi-spherical.

Lastingness of individual flowers.—7-9 days at 18° C. temperature.

Number of inflorescences per plant.—1 open with 3-4 immature umbels in various stages.

Fragrance.—None.

Umbel diameter.—8.0-8.5 cm.

Umbel depth.—6.0-6.5 cm.

Corolla:

Form.—Double.

Number of petals.—8.

Diameter of flower.—About 5.0 cm.

Depth of flower.—4.5-5.0 cm.

Color upper petals, upper surface.—Closest to RHS 78A but brighter, with RHS 86A veins diminishing to RHS 74A splash in middle of petal with some areas RHS 155C.

Color upper petals, lower surface.—Closest to RHS 74B with RHS 170A veins diminishing.

Length of upper petals.—2.7-3.0 cm.

Width of upper petals.—2.0-2.5 cm.

Color lower petals, upper surface.—Closest to RHS 78A but brighter.

Color lower petals, lower surface.—Closest to RHS 72A with a spot RHS 74B.

Length of lower petals.—2.5 cm.

Width of lower petals.—2.0-2.3 cm.

Petal shape.—Obovate to spatulate.

Apex shape.—Rounded.

Margin.—Entire.

Base.—Attenuate.

Petal texture.—Papillose on both surfaces.

Calyx:

Number of sepals.—5.

Color of sepals.—RHS 144A mottled with anthocyanins of about RHS 178B.

Length of sepals.—1.5 cm.

Width of sepals.—0.2-0.4 cm.

Sepal shape.—Lanceolate to linear.

Apex shape.—Acute.

Margins.—Mostly fused.

Texture, upper surface.—Glabrous.

Lower surface.—Glandular hairs, hirsute.

Reproductive organs:

Gynoecium:

Pistil.—1.

Length.—1.0 cm.

Style color.—Closest to RHS 61B.

Style length.—0.4 cm.

Stigma color.—Closest to RHS 61B.

Ovary color.—Between RHS 144A and RHS 144B.

Ovary length.—0.6 cm.

Ovary diameter.—0.2 cm.

Androecium:

Number of stamens.—7.

Color of filaments.—RHS 67B with RHS N155D basally.

Length filaments.—0.7 cm.

Anther color.—RHS 59A.

Length of anthers.—0.2 cm.

Color of pollen.—RHS 25B.

Pollen amount.—Normal.

Fertility/seed set.—Has not been determined to date.

Disease/pest resistance.—Has not been determined to date.

What is claimed is:

5 1. A new and distinct variety of *Pelargonium* plant named 'PEQZ0027' substantially as illustrated and described herein.

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FIG. 1



FIG. 2