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(54) **PELARGONIUM PLANT NAMED ‘PEQZ0029’**

(50) Latin Name: *Pelargonium interspecific*
Varietal Denomination: **PEQZ0029**

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(58) **Field of Classification Search**
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(57) **ABSTRACT**

A new *Pelargonium* plant named ‘PEQZ0029’ particularly distinguished by the white inflorescences held above the medium-green foliage on a plant that has good branching and is very free flowering.

1 Drawing Sheet

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

Varietal denomination: ‘PEQZ0029’.

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 ‘PEQZ0029’.

‘PEQZ0029’ is a product of a planned breeding program. The new cultivar ‘PEQZ0029’ has white 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.

‘PEQZ0029’ originates from a crosses in a controlled breeding program performed from January to June 2009, in a greenhouse in Guatemala. The female parent was an unpatented, proprietary plant of *P. interspecific* parentage, identified as ‘10983-1’ with white flowers and semi double flower form whereas the new cultivar ‘PEQZ0029’ has a single flower form.

The male parent of ‘PEQZ0029’ was an unpatented, proprietary plant of *P. interspecific* parentage, identified as ‘10983-2’ with white florets with a little pinking compared to the new cultivar ‘PEQZ0029’ that has pure white flowers. The resultant seed was sown in November 2009.

‘PEQZ0029’ was selected as one flowering plant within the progeny of the stated cross in February 2010 in a greenhouse in Gilroy, Calif.

The first act of asexual reproduction of ‘PEQZ0029’ was accomplished when vegetative cuttings were propagated from the initial selection in the April 2010 in a greenhouse in Gilroy, Calif.

BRIEF SUMMARY OF INVENTION

Horticultural examination of plants grown from cuttings of the plant initiated in June 2010 in Gilroy, Calif., and continuing thereafter, has demonstrated that the combination

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of characteristics as herein disclosed for ‘PEQZ0029’ are firmly fixed and are retained through successive generations of asexual reproduction.

‘PEQZ0029’ 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. ‘PEQZ0029’ 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 ‘PEQZ0029’ 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 ‘PEQZ0029’ with the 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 May 2017 under natural light. These plants were approximately 12 weeks old and were grown in a 4 inch pots, in a greenhouse trial. The plants shown in the photographs were taken in June 2017.

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

TABLE 1

DIFFERENCES BETWEEN THE NEW VARIETY 'PEQZ0029' AND A MOST SIMILAR VARIETY		
	'PEQZ0029'	'Amri White09' (U.S. Plant Pat. No. 20,276)
Floret size:	Similar	Similar to PEQZ0029
Floret petal color:	White	White
Number of flowers:	Many	Fewer
Plant habit:	Wide growing	Upright growing

Plant:

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

Plant height.—14-18 cm.

Plant height (inflorescence included).—26-32 cm.

Plant width.—45-50 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 144A.

Immature leaf, lower surface.—Closest to RHS 144A.

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

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

Length.—9-10 cm.

Width.—10-11 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.—0.2 cm.

Texture.—Pilose, hirsute, glandular hairs.

Stem:

Quantity of branches.—5-7.

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

Length of stem.—15-18 cm.

Diameter.—0.5-0.9 cm.

Length of internodes.—3.0-4.5 cm.

Texture.—Sparsely hirsute, pilose, glandular hairs.

Peduncle:

Color of peduncle.—RHS 137C.

Length of peduncle.—20-22 cm.

Peduncle diameter.—0.3-0.35 cm.

Texture.—Hirsute, glandular hairs.

Pedicel:

Color of pedicel.—RHS 144A.

Length of pedicel.—2.7-3.0 cm.

Diameter of pedicel.—0.15-0.2 cm.

Texture.—Sparsely pilose, glandular hairs.

Bud (just before opening):

Color.—Closest to RHS 158B.

Length.—1.7 cm.

Width.—0.6-0.7 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.—2 with 2-4 immature umbels in various stages.

Fragrance.—None.

Umbel diameter.—9-12 cm.

Umbel depth.—6-7 cm.

Corolla:

Form.—Single.

Number of petals.—5.

Diameter of flower.—5.0-5.5.

Depth of flower.—2.5-3.0 cm.

Color upper petals, upper surface.—Closest to RHS 155D.

Color upper petals, lower surface.—Closest to RHS 155D.

Length of upper petals.—3.1 cm.

Width of upper petals.—2.5-2.7 cm.

Color lower petals, upper surface.—Closest to RHS 155D.

Color lower petals, lower surface.—Closest to RHS 155D.

Length of lower petals.—2.8-3.0 cm.

Width of lower petals.—2.8 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.

Length of sepals.—1.2 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.—1.1 cm.

Style color.—Closest to RHS 160B.

Style length.—0.5 cm.

Stigma color.—Closest to RHS 160B.

Ovary color.—RHS 144A.

Ovary length.—0.5 cm.

Ovary diameter.—0.2 cm.

Androecium:

Number of stamens.—10.

Color of filaments.—RHS 155D.

Length filaments.—0.7 cm.

Anther color.—Closest to RHS 31A.
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:

1. A new and distinct variety of *Pelargonium* plant named 'PEQZ0029' substantially as illustrated and described herein.

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FIG. 1



FIG. 2