

US00PP20974P2

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

(10) **Patent No.:** **US PP20,974 P2**
(45) **Date of Patent:** **May 4, 2010**

(54) *PETUNIA* PLANT NAMED ‘DANRAY1’
(50) Latin Name: *Petunia sensu Wijsman*
Varietal Denomination: **DANRAY1**
(75) Inventor: **Gabriel Danziger**, Moshav Nir-Zvi (IL)
(73) Assignee: **Danziger “DAN” Flower Farm**, Post
Beit Dagan (IL)
(*) 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.: **12/381,348**
(22) Filed: **Mar. 11, 2009**
(51) **Int. Cl.**
A01H 5/00 (2006.01)
(52) **U.S. Cl.** **Plt./356**
(58) **Field of Classification Search** **Plt./356**
See application file for complete search history.

(56) **References Cited**

OTHER PUBLICATIONS

Print-out of application number and filing date from Community
Plant Variety Office (CPVO) website for corresponding, CPVO appli-
cation No. 2009/0113 filed Jan. 23, 2009 (2 pages). ([http://www.
cpvoextranet.cpvo.europa.eu](http://www.cpvoextranet.cpvo.europa.eu)).

Primary Examiner—Annette H Para
(74) *Attorney, Agent, or Firm*—Foley & Lardner LLP
(57) **ABSTRACT**

A new and distinct *Petunia* plant named ‘DANRAY1’ char-
acterized by having a mounded growth habit; large in size,
white-colored flowers; high floriferous rate; early to bloom
with long bloom period; and suitable for patios and outdoor
beddings.

2 Drawing Sheets

1

Latin name of the Genus and Species of the claimed plant:
Petunia sensu Wijsman.
Variety denomination: ‘DANRAY1’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Petunia* plant, botanically known as *Petunia sensu Wijs-
man*, hereinafter referred to by the cultivar name
‘DANRAY1’.

The new *Petunia* cultivar is a product of a planned breeding
program conducted by the inventor, Gabriel Danziger, in
Moshav Mishmar Hashiva, Israel. The objective of the breed-
ing program is to develop a new *Petunia* variety with a
mounded plant habit and large inflorescence with unique
coloration.

The new *Petunia* cultivar originated from a cross-made in
a controlled breeding program by the inventor, Gabriel Dan-
ziger, in 2006, in Moshav Mishmar Hashiva, Israel. The
female or seed parent is *Petunia sensu Wijsman* ‘PE-1148’
(unpatented), and the male or pollen parent is *Petunia sensu
Wijsman* ‘PE-65’ (unpatented). The new *Petunia*
‘DANRAY1’ was discovered and selected by the inventor,
Gabriel Danziger, as a single flowering plant within the prog-
eny of the stated cross in a controlled environment in Moshav
Mishmar Hashiva, Israel.

Asexual reproduction of the new *Petunia* cultivar by veg-
etative cuttings was first performed in April of 2007 in
Moshav Mishmar Hashiva, Israel, and has demonstrated that
the combination of characteristics as herein disclosed for the
new cultivar are firmly fixed and retained through successive
generations of asexual reproduction. The new cultivar repro-
duces true-to-type.

BRIEF SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and are
determined to be unique characteristics of ‘DANRAY1’
which in combination distinguish this *Petunia* as a new and
distinct cultivar:

2

1. mounded growth habit;
2. large in size, white-colored flowers;
3. high floriferous rate;
4. early to bloom with long bloom period; and
5. suitable for patios and outdoor beddings.

Plants of the new *Petunia* ‘DANRAY1’ differ from plants
of the parents, *Petunia sensu Wijsman* ‘PE-1148’ (unpat-
ented) and *Petunia sensu Wijsman* ‘PE-65’ (unpatented) in the
characteristics described in Table 1.

TABLE 1

Characteristic	New Cultivar ‘DANRAY1’	Female Parent	Male Parent
		‘PE-1148’ (unpatented)	‘PE-65’ (unpatented)
Plant shape	Mounded	Trailing	Mounded
Plant size	Height: About 30	Height: About 20	Height: About 30
	cm	cm	cm
	Spread: About 40	Spread: About 40	Spread: About 40
	cm	cm	cm
Flower size	Depth: About 4	Depth: About 3	Depth: About 4
	cm	cm	cm
	Diameter: About	Diameter: About	Diameter: About
	6.5 cm	5 cm	6 cm
Flower color	White	Purple	White
Flower type	Single	Double	Single
Flowering time	Early	Late	Early

Of the many commercial cultivars known to the present
inventor, the most similar in comparison to the new *Petunia*
‘DANRAY1’ is *Petunia sensu Wijsman* ‘DANCAS110’ (pat-
ented, U.S. Plant Pat. No. 17,288), in the characteristics
described in Table 2:

TABLE 2

Characteristic	New Cultivar 'DANRAY1'	Comparison Cultivar 'DANCAS110' (patented)
Plant shape	Mounded	Mounded, bushy
Plant size	Height: About 20 cm Spread: About 40 cm	Height: About 25 cm Spread: About 50 cm
Growth habit	Vigorous	Medium
Flower size	Depth: About 4 cm Diameter: About 6.5 cm	Depth: About 3 cm to 3.5 cm Diameter: About 4 cm to 5 cm
Flower color	White	Yellow

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall appearance of the new *Petunia* cultivar 'DANRAY1' showing the colors as true as is reasonably possible with colored reproductions of this type. Colors in the photographs may differ slightly from the color value cited in the detailed botanical description, which accurately describe the color of 'DANRAY1'.

FIG. 1 shows a side view perspective a typical flowering plant of 'DANRAY1' in a 13 cm pot, at 8 weeks after planting.

FIG. 2 shows a close-up view of the typical flowers, buds and leaves of 'DANRAY1' at 8 weeks after planting.

DETAILED BOTANICAL DESCRIPTION

The new *Petunia* 'DANRAY1' has not been observed under all possible environmental conditions. The phenotype of the new cultivar may vary with variations in environment such as temperature, light intensity, and day length without any change in the genotype of the plant.

Plants of 'DANRAY1' are grown outdoors in a moderate climate, and grown indoors during the winter. Irrigation and fertilization are needed on a regular basis. For optimal growth, grow plants of 'DANRAY1' in full sunlight. Plants of 'DANRAY1' are fully grown in 3 months when grown in full sunlight, and bloom all year-round in a moderate climate.

The aforementioned photographs, together with the following observations, measurements and values describe the new *Petunia* 'DANRAY1' as grown in a greenhouse in Moshav Mishmar Hashiva, Israel, under conditions which closely approximate those generally used in commercial practice.

Color references are made to The Royal Horticultural Society Color Chart (R.H.S.), 2001 edition, except where general colors of ordinary significance are used. Color values were taken under daylight conditions at approximately (time) 12:00 noon in Moshav Mishmar Hashiva, Israel. The age of the plant described is 8 weeks from planting.

Classification:

Botanical.—*Petunia sensu* Wijsman.

Parentage:

Female or seed parent.—*Petunia sensu* Wijsman 'PE-1148' (unpatented).

Male or pollen parent.—*Petunia sensu* Wijsman 'PE-65' (unpatented).

Optimal growth conditions:

Light intensities.—Full sunlight.

Temperature.—Day: 22° C. to 32° C. Night: 15° C. to 20° C.

Temperature tolerance.—Tolerant to a low temperature of about 5° C. and tolerant to a high temperature of about 40° C.

Fertilization.—A balanced fertilizer with level N:P:K=5:3:8, using 250–300 ppm Nitrogen.

Growth regulators.—Not necessary in Israeli climate.

Propagation:

Type.—Tip cuttings of side shoots.

Rooting habit and description.—Easy to root; root from cutting base.

Time to initiate roots.—About 5 to 10 days at 20° C.

Time to produce a rooted cutting.—About 14 days at 20° C.

Plant:

General appearance and form.—Height: About 20 cm. Spread: About 40 cm.

Growth habit.—Mounded.

Growth rate.—Fully grown plant in 3 months.

Branching habit and description.—Freely branching, typical to *Petunia* species.

Flowering response.—Indifferent to day length.

Flowering season.—Year round in moderate climate.

Winter hardiness/weather tolerance.—Frost tender.

Plants may be damaged by temperatures below 5° C.

Lastingness of the individual bloom.—3 to 6 days.

Fragrance.—None.

Stem description:

Quantity per plant.—About 20.

Length.—About 20 cm to 40 cm.

Diameter.—About 0.2 cm to 0.4 cm.

Strength.—Medium.

Branching.—Freely.

Texture.—Pubescent.

Internodes length.—About 2 cm to 3 cm.

Internodes and stem color.—Green, RHS 139A.

Foliage:

Arrangement.—Alternate, sessile.

Overall shape of leaf.—Elliptic.

Apex.—Obtuse.

Base.—Cuneate.

Length.—About 3 cm to 4 cm.

Width.—About 2 cm to 3 cm.

Margin.—Entire.

Texture.—Upper surface: Glabrous. Under surface: Glabrous.

Pubescence.—None.

Immature leaf color.—Upper and Under Surfaces: Green, RHS 139A.

Mature leaf color.—Upper and Under Surfaces: Green, RHS 139A.

Venation pattern.—Pinnate.

Venation color.—Upper and Under Surfaces: Green, RHS 139D.

Inflorescence:

Flower longevity.—About 3 to 6 days.

Flower size.—Diameter: About 6.5 cm. Depth: About 4 cm.

Floral tube.—Diameter: 0.4 cm to 0.9 cm at the corolla surface.

Flower shape/type.—Salverform.

Average number of flowers per lateral branch.—About 5 to 10.

Petals.—Number: 5; all 5 petals are united. Length: About 5 cm to 6 cm (from edge of the petal up to the base of floral tube). Width: About 2.5 cm across.

Shape: Corolla united with 5 lobes and a long straight tube. Apex: Rounded (Obtuse). Margin: Entire. Texture: Upper and Under Surfaces: Glabrous. Color (when opening and when fully opened): Upper and Under Surfaces: White, RHS N999D (RHS mini color chart 2005) with white margin, RHS N999D.

Sepals.—Number: 5. Length: About 1 cm to 2 cm. Width: About 0.2 cm to 0.3 cm. Shape: Oblong. Apex: Truncate. Margin: Entire. Texture: Upper and Under Surfaces: Pubescent. Color: Upper and Under Surface: Green, RHS 139A.

Bud.—Rate of opening: About 2 to 4 days. Shape: Tubular. Length: About 2 cm to 3 cm. Diameter: About 0.4 cm to 0.7 cm. Texture: Pubescent. Color: Yellow-green, RHS 144B.

Peduncle.—Length: About 1.5 cm to 2.5 cm. Diameter: About 2 mm to 2.5 mm. Texture: Pubescent. Color: Green, RHS 139C.

Reproductive organs:

Androecium.—Stamen: Number: 5. Length: About 2 cm. Color: Yellow, RHS 11B. Anther: Shape Round. Length: About 1 mm. Color: Yellow, RHS 11B. Filaments: Length: About 20 mm. Color: White, RHS 155D. Pollen: Amount: Abundant. Color: Yellow, RHS 11B. Pollination requirements: None.

Gynoecium.—Pistils: Quantity: 1. Length: About 20 mm. Color: Green, RHS 139D. Stigma: Shape: Undulate. Width: About 1 mm. Color: Green, RHS 139A. Style: Shape: Terete. Length: About 20 mm. Color: Green, RHS 139D. Ovary: Shape: Narrowly Conical. Position: Superior. Length: About 4 mm. Width: About 2 mm at the base. Color: Green, RHS 139D.

Seeds:

Quantity per fruit.—About 200 to 400.

Shape.—Round.

Length.—About 0.5 mm.

Width.—About 0.5 mm.

Texture.—Smooth.

Color.—Black, RHS 202B.

Fruit:

Number.—Few, when naturally pollinated.

Type.—Capsule.

Shape.—Ellipsoid.

Length.—About 9 mm.

Width.—About 6 mm.

Texture.—Glabrous.

Color.—Green, RHS 139D.

Disease/pest resistance: Resistance to disease and pests common to *Petunia* has not been tested on plant grown under commercial conditions.

Disease/pest susceptibility: Susceptibility to disease and pests common to *Petunia* has not been observed on plant grown under commercial conditions.

Temperature tolerance: Plants of the new *Petunia* have exhibited good tolerance to draught, rain and wind; however, flowering may cease during hot periods (temperatures above 45° C.). Low temperature tolerance to 5° C.

What is claimed is:

1. A new and distinct *Petunia* plant named 'DANRAY1', substantially as illustrated and described herein.

* * * * *

FIG. 1

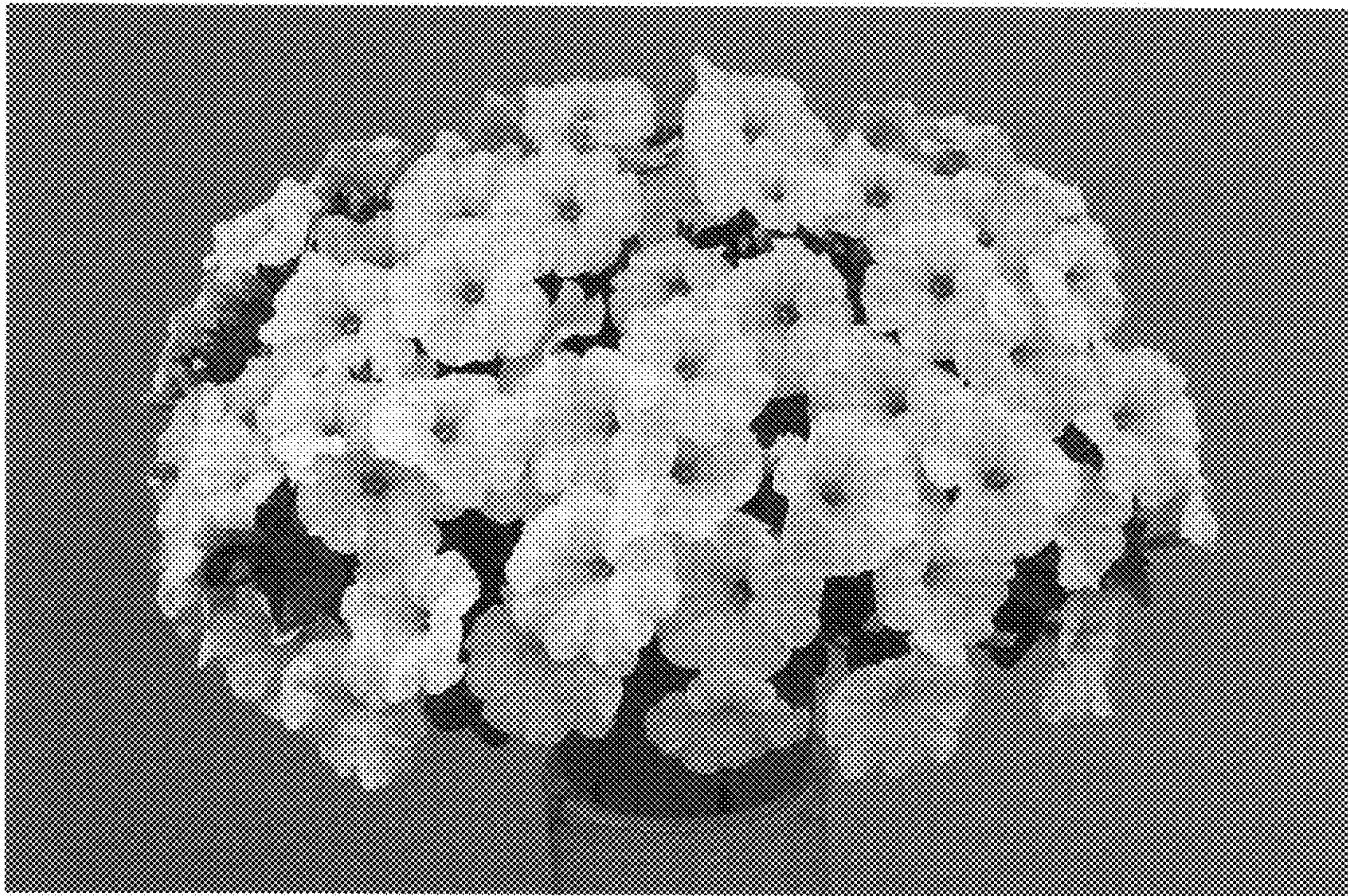


FIG. 2

