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

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(54) **PETUNIA PLANT NAMED ‘DRAY307’**

(50) Latin Name: *Petunia sensu wijsman*
Varietal Denomination: **DRAY307**

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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 98 days.

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(51) **Int. Cl.**

A01H 5/02 (2006.01)

(52) **U.S. Cl.**

USPC **Plt./356.13**

(58) **Field of Classification Search**

USPC **Plt./356.1, 356.13**

See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct *Petunia* cultivar named ‘DRAY307’ is disclosed, characterized by abundant large yellow flowers on a mounded ball shaped plant, very branched plants of medium vigor. The new variety is an *Petunia*, normally produced as an outdoor garden or container plant.

2 Drawing Sheets

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Latin name of the genus and species: *Petunia sensu wijsman*.

Variety denomination: ‘DRAY307’.

BACKGROUND OF THE INVENTION

The new *Petunia* cultivar is a product of a planned breeding program conducted by the inventor, Gavriel Danziger, in Moshav Mishmar Hashiva, Israel. The objective of the breeding program was to produce new *Petunia* varieties for ornamental commercial applications. The cross resulting in this new variety was made during January of 2011.

The seed parent is the unpatented, proprietary variety referred to as *Petunia sensu wijsman*. ‘cv. 8-1255’. The pollen parent is the unpatented, proprietary variety referred to as *Petunia sensu wijsman* ‘cv. 10-3970’. The new variety was discovered in December of 2011 by the inventor in a group of seedlings resulting from the 2011 crossing, in a research greenhouse in Moshav Mishmar Hashiva, Israel.

Asexual reproduction of the new cultivar was performed by vegetative cuttings. This was first performed at a research greenhouse in Moshav Mishmar Hashiva, Israel in January of 2012 and has shown that the unique features of this cultivar are stable and reproduced true to type in more than 25 successive generations.

SUMMARY OF THE INVENTION

The cultivar ‘DRAY307’ has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, day length, and light intensity, without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of ‘DRAY307’. These characteristics in combination distinguish ‘DRAY307’ as a new and distinct *Petunia* cultivar:

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1. Mounded, ball-shaped.
2. Very branched with medium vigor.
3. Flower color is yellow.
4. Flower size is large.
5. Abundant flowering.

Plants of the new cultivar ‘DRAY307’ are similar to plants of the seed parent, *Petunia sensu wijsman* ‘cv. 8-1255’ in most horticultural characteristics, however, plants of the new cultivar ‘DRAY307’ differs in the following;

1. Mounded, ball shape, compared to the semi upright shape of seed parent.
2. Larger far more branched plant.
3. Different flower color yellow compared to cream color of seed parent.
4. Larger flower size.
5. Greater amount of flowers.

Plants of the new cultivar ‘DRAY307’ are similar to plants of the pollen parent; *Petunia sensu wijsman* ‘cv. 10-3970’ in most horticultural characteristics, however, plants of the new cultivar ‘DRAY307’ differs in the following;

1. Ball shaped habit.
2. Smaller and less vigorous and branched plant.
3. Flowers are yellow; flowers of pollen parent are greenish-yellow.
4. Smaller flower size.
5. Less abundant flowering.

COMMERCIAL COMPARISON

Plants of the new cultivar ‘DRAY307’ are comparable to the variety *Petunia* ‘DANRAY1’ U.S. Plant Pat. No. 20,974. The two *Petunia* varieties are similar in most horticultural characteristics; however, the new variety ‘DRAY307’ differs in the following:

1. Smaller flower size.
2. Yellow flowers. The comparator has white flowers.
3. Less vigor.
4. Shorter branches.

Plants of the new cultivar 'DRAY307' can also be compared to the commercial variety *Petunia* 'DANRAY3', unpatented. These varieties are similar in most horticultural characteristics; however 'DRAY307' differs in the following:

1. Smaller flower size.
2. Yellow flowers. The comparator has light purple flowers with dark purple veins.
3. Less vigor.
4. Shorter branches.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photograph in FIG. 1 illustrates in full color a typical plant of 'DRAY307' grown in a greenhouse, in a 13 cm pot. Age of the plant photographed is approximately 3 months from a rooted cutting.

FIG. 2 illustrates in full color a close up of a typical bloom of 'DRAY307'.

The photographs were taken using conventional techniques and although colors may appear different from actual colors due to light reflectance it is as accurate as possible by conventional photographic techniques.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Mini Colour Chart 2005 except where general terms of ordinary dictionary significance are used. The following observations and measurements describe 'DRAY307' plants grown in a greenhouse, in Moshav Mishmar Hashiva, Israel. The growing temperature ranged from 20° C. to 35° C. during the day and from 17° C. to 23° C. during the night. General light conditions are bright, normal sunlight. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Petunia sensu wijsman* 'DRAY307'.

PROPAGATION

Time to initiate roots: About 10 to 14 days at approximately 22° C.

Root description: Fibrous.

PLANT

Age of plant described: Approximately 60 days from a rooted cutting.

Growth habit: Mounded.

Pot size of plant described: 13 cm.

Height: To top of flowers: About 22 cm.

Plant spread: About 50 cm.

Growth rate: Medium.

Branching characteristics: Very branched.

Length of primary lateral branches: About 25 cm.

Diameter of lateral branches: About 0.3 cm.

Quantity of primary lateral branches: 8.

Characteristics of primary lateral branches:

Form.—Cylindrical.

Diameter.—About 0.3 cm.

Color.—RHS Yellow-Green 144 A.

Texture.—Pubescent.

Strength.—Good.

Internode length: About 1.5 cm.

FOLIAGE

Leaf:

Arrangement.—Opposite.

Quantity.—Approximately 20 per branch.

Average length.—5.5 cm.

Average width.—3.0 cm.

Shape of blade.—Elliptic.

Apex.—Acute.

Base.—Acute.

Margin.—Entire.

Texture of upper and lower surfaces.—Velvety.

Aspect.—Mainly flat, 90 degree angle of attachment.

Color.—Young foliage upper side: RHS Green 137 B.

Young foliage under side: RHS Green 137 C. Mature

foliage upper side: RHS Green 137 B. Mature foliage

under side: RHS Green 137 C.

Venation.—Type: Pinnate. Venation color upper side:

RHS Green 137 C. Venation color under side: RHS

Green 137 D.

Petiole.—Length: About 0.7 cm. Diameter: About 0.2

cm. Color: RHS Green 137 B.

Texture.—Velvety.

FLOWER

Natural flowering season: Spring, Summer and Autumn.

Days to flowering from rooted cutting: About 30 days.

Inflorescence and flower type and habit: Axillary, single flower, Salverform shape, Erect habit.

Rate of flower opening: 2 to 3 days from bud to fully opened flower.

Flower longevity on plant: 3-6 days.

Approximate quantity of flowers per plant: About 60.

Persistent or self-cleaning: Self-cleaning.

Bud:

Shape.—Tubular.

Length.—About 4.0 cm.

Diameter.—About 1.0 cm.

Color.—RHS Yellow-Green 154 A.

Flower size:

Diameter.—About 6 cm.

Flower tube length.—About 3 cm.

Flower tube diameter at distal end.—1 cm.

Flower tube diameter at proximal end.—0.3 cm.

Petals:

Length from throat.—About 3 cm.

Width.—About 3 cm.

Quantity.—5.

Texture.—Velvety.

Apex.—Blunt.

Margin.—Wavy.

Color:

When opening.—Upper surface: RHS Yellow-Green

154 A. Lower surface: RHS Yellow-Green 150 C.

Fully opened.—Upper surface: RHS Yellow 3 B. Lower

surface: RHS Yellow 3 D. Flower throat (inside): RHS

Yellow 6 A. Flower throat, vein: RHS Yellow-Green

N144 A. Flower tube (outside): RHS Yellow 3 B.

Flower tube, vein: RHS Yellow-Green 144 B.

Fading.—Petals fading to: RHS Yellow 3 D.

Calyx/sepals:

Quantity per flower.—5.

Shape.—Linear.

Length.—About 1.7 cm.
Width.—About 0.3 cm.
Apex.—Rounded.
Base.—Cuneate.
Margin.—Entire.
Texture.—Velvety.
Color.—Upper Surface: RHS Green 137 B. Lower Surface: RHS Green 137 C.
 Peduncle:
Length.—About 2 cm.
Diameter.—About 0.1 cm.
Color.—RHS Green 137 B.
Orientation.—45 degrees.
 Fragrance: None.

REPRODUCTIVE ORGANS

Stamens:
Number.—5.
Filament length.—About 2.0 cm.
 Anthers:
Length.—About 0.1 cm.
Shape.—Rounded.

Color.—RHS Yellow 11 B.
Pollen.—Color: RHS Yellow 11 B. Quantity: Plenty.
 Pistil:
Number.—1.
 5 *Length.*—About 2.5 cm.
Style.—Length: About 2 cm. Color: RHS Yellow-Green 154 C.
Stigma.—Shape: Rounded. Color: RHS Green 143 C.
 10 *Ovary Color:* RHS Green 143 B.

OTHER CHARACTERISTICS

Seeds and fruits: About 50 brown, rounded seeds of about 0.5 mm diameter, per one brown, conical capsule.
 15 Disease/pest resistance: Neither resistance nor susceptibility to normal diseases and pests of *Petunia* have been observed.
 Temperature tolerance: Typical range 5° C.-40° C.

20 What is claimed is:
 1. A new and distinct cultivar of *Petunia* plant named 'DRAY307' as herein illustrated and described.

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Fig. 1



Fig. 2