



(12) **United States Plant Patent**
Kanaya et al.

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(54) **VERBENA PLANT NAMED ‘SUNMARIMUCO’**

(50) Latin Name: *Verbena hybrida*
Varietal Denomination: **Sunmarimuco**

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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 273 days.

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A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./308**

(58) **Field of Classification Search** **Plt./308**
See application file for complete search history.

(56) **References Cited**

OTHER PUBLICATIONS

Anonymous “Violet Temari Trailing *Verbena*” available at: <http://www.suntorycollection.net/gardeners/temari-trailing-verbena/violet.html>.
UPOV ROM GTITM Computer Database GTI JOUVE Retrieval Software 2011/01 Citation for ‘Sunmarimuco’.*

* cited by examiner

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(57) **ABSTRACT**

A new and distinct cultivar of *Verbena* plant named ‘Sunmarimuco’, characterized by its compact and outwardly spreading to trailing plant habit; vigorous growth habit; freely branching habit; early and freely flowering habit; long flowering period; purple-colored flowers that are held above and beyond the foliar plane; and good garden performance.

1 Drawing Sheet

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Botanical designation: *Verbena hybrida*.
Cultivar denomination: ‘SUNMARIMUCO’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Verbena* plant, botanically known as *Verbena hybrida*, and hereinafter referred to by the name ‘Sunmarimuco’.

The new *Verbena* plant is a product of a planned breeding program conducted by the Inventors in Higashiomi, Shiga, Japan. The objective of the breeding program is to create new compact, mounding to trailing and freely-branching *Verbena* cultivars with attractive flower coloration.

The new *Verbena* plant originated from a cross-pollination made by the Inventors in November, 2005 in Higashiomi, Shiga, Japan of a proprietary selection of *Verbena hybrida* identified as code number 00-24, not patented, as the female, or seed, parent with a proprietary selection of *Verbena hybrida* identified as code number 00-21, not patented, as the male, or pollen, parent. The new *Verbena* plant was discovered and selected by the Inventor as a single flowering plant within the progeny of the stated cross-pollination in a controlled greenhouse environment in Higashiomi, Shiga, Japan in October, 2006.

Asexual reproduction of the new *Verbena* plant by terminal cuttings in a controlled environment in Higashiomi, Shiga, Japan since November, 2006 has shown that the unique features of this new *Verbena* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Verbena* have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment and cultural practices such as temperature and light intensity without, however, any variance in genotype.

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

1. Compact and outwardly spreading to trailing plant habit.
2. Vigorous growth habit.
3. Freely branching habit.
4. Early and freely flowering habit.
5. Long flowering period.
6. Purple-colored flowers that are held above and beyond the foliar plane.
7. Good garden performance.

Plants of the new *Verbena* can be compared to plants of the female parent selection. Plants of the new *Verbena* differ primarily from plants of the female parent selection in the following characteristics:

1. Plants of the new *Verbena* are more compact than plants of the female parent selection.
2. Plants of the new *Verbena* and the female parent selection differ in flower color as plants of the female parent selection have red purple-colored flowers.

Plants of the new *Verbena* can be compared to plants of the male parent selection. Plants of the new *Verbena* differ primarily from plants of the male parent selection in the following characteristics:

1. Plants of the new *Verbena* are more compact than plants of the male parent selection.
2. Plants of the new *Verbena* are not as upright and mounding as plants of the male parent selection.
3. Plants of the new *Verbena* and the male parent selection differ in flower color as plants of the male parent selection have white-colored flowers.

Plants of the new *Verbena* can be compared to plants of *Verbena* ‘Sunvivapa’, disclosed in U.S. Plant Pat. No. 13,933. In side-by-side comparisons conducted in Higashiomi, Shiga,

Japan, plants of the new *Verbena* differed primarily from plants of 'Sunvivapa' in the following characteristics:

1. Plants of the new *Verbena* were more compact than plants of 'Sunvivapa'.
2. Plants of the new *Verbena* were not as upright as plants of 'Sunvivapa'.
3. Plants of the new *Verbena* flowered earlier than plants of 'Sunvivapa'.
4. Plants of the new *Verbena* had larger inflorescences than plants of 'Sunvivapa'.
5. Plants of the new *Verbena* and 'Sunvivapa' differed in flower color as plants of 'Sunvivapa' had red purple-colored flowers.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new *Verbena* plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Verbena*.

The photograph at the top of the sheet comprises a side perspective view of a typical flowering plant of 'Sunmarimuco' grown in a container.

The photograph at the bottom of the sheet is a close-up view of a typical inflorescence of 'Sunmarimuco'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and measurements describe plants grown in 15-cm containers in Higashiomi, Shiga, Japan, under commercial practice during the spring and early summer in an outdoor nursery with day temperatures averaging 23° C. and night temperatures averaging 13° C. Plants were four months old when the photographs and description were taken. In the following description color references are made to The Royal Horticultural Society Colour Chart, 2001 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Verbena hybrida* 'Sunmarimuco'.

Parentage:

Female, or seed, parent.—Proprietary selection of *Verbena hybrida* identified as code number 00-24, not patented.

Male, or pollen, parent.—Proprietary seedling selection of *Verbena hybrida* identified as code number 00-21, not patented.

Propagation:

Type.—By terminal cuttings.

Time to initiate roots.—About 10 to 14 days at 20° C. to 25° C.

Time to produce a rooted young plant.—About four weeks at 20° C. to 25° C.

Root description.—Fibrous; white in color.

Rooting habit.—Freely branching.

Plant description:

Plant and growth habit.—Compact, outwardly spreading to trailing growth habit; freely branching habit with numerous lateral branches developing per plant; pinching enhances lateral branch development; vigorous growth habit.

Plant height.—About 17 cm.

Plant diameter.—About 57.2 cm.

Lateral branch description:

Length.—About 19 cm.

Diameter.—About 2.1 mm.

Internode length.—About 3.2 cm.

Strength.—Strong.

Aspect.—Upright to decumbent.

Texture.—Pubescent.

Color.—Close to 144A.

Foliage description:

Arrangement.—Opposite, simple.

Length.—About 4 cm.

Width.—About 2.7 cm.

Shape.—Ovate.

Apex.—Acute.

Base.—Truncate to obtuse.

Margin.—Serrate.

Texture, upper and lower surfaces.—Coarse; pubescent.

Venation pattern.—Pinnate; reticulate.

Color.—Developing and fully expanded leaves, upper surface: Close to 137A; venation, close to 145B.

Developing and fully expanded leaves, lower surface: Close to 137C; venation, close to 145B.

Petiole.—Length: About 5.4 cm. Diameter: About 1.5 mm. Texture, upper and lower surfaces: Sparsely pubescent. Color, upper and lower surfaces: Close to 145B.

Flower description:

Flower arrangement and habit.—Single salverform flowers arranged in hemispherical terminal racemes; flowers face mostly upright; freely flowering habit with about 19 flowers per inflorescence and about 24 inflorescences per plant.

Natural flowering season.—Early flowering habit, plants begin flowering about four weeks after planting; long flowering period, plants flower continuously from spring to late autumn in Japan.

Flower longevity.—Flowers last about one week on the plant; flowers not persistent.

Fragrance.—Faintly fragrant.

Inflorescence height.—About 3 cm.

Inflorescence diameter.—About 5.9 cm.

Flowers.—Appearance: Flared trumpet, corolla fused, five-parted. Diameter: About 2.1 cm. Depth (height): About 2 cm. Tube length: About 19.4 mm. Tube diameter: About 0.9 mm.

Flower buds.—Length: About 1.3 cm. Diameter: About 2.8 mm. Shape: Clavate. Color: Close to 86B.

Corolla.—Arrangement: Single whorl of five fused petals. Petal length: About 9.8 mm. Petal width: About 4.9 mm. Petal lobe shape: Obcordate. Petal lobe apex: Cordate. Petal margin: Entire; slightly undulate. Petal texture, upper and lower surfaces: Smooth, glabrous. Tube texture: Smooth, glabrous. Color: Petal, when opening, upper surface: Close to N78A; towards the base, close to N79A; center, close to 150D. Petal, when opening, lower surface: Close to 84D; towards the margins, close to N80C. Petal, fully opened, upper surface: Close to N78A; towards the base, close to N79A; center, close to 150D. Petal, fully opened, lower surface: Close to 84D; towards the margins, close to N80D. Throat: Close to 145D. Tube: Close to 145D.

Calyx.—Arrangement: One single narrow calyx tube per flower with five fused sepals. Sepal length: About 13 mm. Sepal width: About 0.9 mm. Sepal shape:

Lanceolate. Sepal apex: Acute. Sepal margin: Entire. Sepal texture, upper and lower surfaces: Smooth, glabrous. Sepal color, upper and lower surfaces: Close to 137C.

Peduncles.—Length: About 5.3 cm. Diameter: About 1.5 mm. Strength: Strong. Texture: Pubescent. Color: Close to 144A.

Reproductive organs.—Stamens: Quantity/arrangement: Four per flower, adnate to corolla tube. Stamen length: About 2 cm. Anther shape: Ellipsoidal. Anther size: About 0.5 mm by 0.8 mm. Anther color: Close to 1B. Pollen amount: Very scarce. Pistils: Quantity: One per flower. Pistil length: About 19.5 mm. Stigma shape: Bi-parted. Stigma color: Close to 144B. Style

color: Close to 145C. Ovary color: Close to 143C. Fruits/seeds: Fruit and seed development have not been observed.

Garden performance: Plants of the new *Verbena* have been observed to have good garden performance and to tolerate wind, rain and temperatures from about 0° C. to about 35° C.

Pathogen/pest resistance: Plants of the new *Verbena* have not been observed to be resistant to pathogens and pests common to *Verbenas*.

It is claimed:

1. A new and distinct *Verbena* plant named ‘Sunmarimuco’ as illustrated and described.

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