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Vandenberg

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(54) **CHRYSANTHEMUM PLANT NAMED**
'YOSWING'

(51) **Int. Cl.**
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(50) Latin Name: *Chrysanthemum*×*morifolium*
Varietal Denomination: **Yoswing**

(52) **U.S. Cl.** **Plt./287**
(58) **Field of Classification Search** **Plt./287**
See application file for complete search history.

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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 0 days.

(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named
'Yoswing', characterized by its upright plant habit; dark
green-colored foliage; freely and uniformly flowering habit;
decorative-type inflorescences that are about 8 cm in diam-
eter; attractive dark purple-colored ray florets; strong
peduncles; and good postproduction longevity.

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1 Drawing Sheet

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Botanical designation: *Chrysanthemum*×*morifolium*.
Cultivar denomination: 'Yoswing'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Chrysanthemum* plant, botanically known as
Chrysanthemum×*morifolium*, commercially grown as a cut
flower and hereinafter referred to by the name 'Yoswing'.

The new *Chrysanthemum* is a product of a planned
breeding program conducted by the Inventor in Salinas,
Calif. and Bogota, Colombia. The objective of the program
is to create and develop new cut *Chrysanthemum* cultivars
having inflorescences with desirable floret coloration and
good inflorescence form and substance.

The new *Chrysanthemum* originated from a cross-
pollination made by the Inventor in January, 2001, in
Salinas, Calif. of a proprietary *Chrysanthemum*×*morifolium*
seedling selection identified as code number T2575, not
patented, as the female, or seed, parent with a proprietary
Chrysanthemum×*morifolium* seedling selection identified as
code number R314, not patented, as the male, or pollen,
parent. The new *Chrysanthemum* was discovered and
selected by the Inventor as a single flowering plant within
the progeny of the stated cross-pollination in a controlled
environment in Bogota, Colombia in June, 2002. The selec-
tion of this plant was based on its desirable ray floret color
and good inflorescence form and substance.

Asexual reproduction of the new *Chrysanthemum* by
terminal cuttings in a controlled environment in Bogota,
Colombia since August, 2002, has shown that the unique
features of this new *Chrysanthemum* are stable and repro-
duced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the cultivar Yoswing have not been observed
under all possible environmental conditions. The phenotype
may vary somewhat with variations in environment such as
temperature, daylength 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 'Yoswing'.
These characteristics in combination distinguish 'Yoswing'
as a new and distinct cultivar of *Chrysanthemum*:

1. Upright cut *Chrysanthemum* that is usually grown as a naturally spray.
2. Dark green-colored foliage.
3. Freely and uniformly flowering habit.
4. Decorative-type inflorescences that are about 8 cm in diameter.
5. Attractive dark purple-colored ray florets.
6. Response time about 63 days.
7. Strong peduncles.
8. Good postproduction longevity with inflorescences and foliage maintaining good substance and color for about two weeks in an interior environment.

Plants of the new *Chrysanthemum* differ from plants of
the female parent selection in the following characteristics:

1. Plants of the new *Chrysanthemum* are shorter and have shorter peduncles than plants of the female parent selection.
2. Plants of the new *Chrysanthemum* flower more freely and more uniformly than plants of the female parent selection.
3. Plants of the new *Chrysanthemum* and the female parent selection differ in ray floret color as plants of the female parent selection have dark pink-colored ray florets.

Plants of the new *Chrysanthemum* differ from plants of
the male parent selection in the following characteristics:

1. Plants of the new *Chrysanthemum* flower slightly later than plants of the male parent selection.
2. Plants of the new *Chrysanthemum* flower more uniformly than plants of the male parent selection.
3. Plants of the new *Chrysanthemum* and the male parent selection differ in ray floret color as plants of the male parent selection have dull dark red-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to
plants of the *Chrysanthemum* cultivar True, disclosed in

U.S. Plant Pat. No. 14,620. In side-by-side comparisons conducted in Bogota, Colombia, plants of the new *Chrysanthemum* differed from plants of the cultivar True in the following characteristics:

1. Plants of the new *Chrysanthemum* were shorter than plants of the cultivar True.
2. Plants of the new *Chrysanthemum* flowered about seven to nine days earlier than plants of the cultivar True.
3. Plants of the new *Chrysanthemum* flowered more uniformly than plants of the cultivar True.
4. Inflorescences of plants of the new *Chrysanthemum* had brighter colored ray florets than inflorescences of plants of the cultivar True.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall appearance of the new *Chrysanthemum*. These photographs show 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 *Chrysanthemum*.

The photograph at the bottom of the sheet comprises a side perspective view of a typical flowering stem of 'Yoswing' grown as a natural spray.

The photograph at the top of the sheet comprises a close-up view of typical inflorescences of 'Yoswing' grown as a natural spray.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used. The aforementioned photographs and following observations and measurements describe plants grown in Oxnard, Calif. during the winter and spring in a polyethylene-covered greenhouse and under conditions and practices which approximate those generally used in commercial *Chrysanthemum* production. Measurements and numerical values represent averages for typical flowering plants. Plants were grown as single-stem natural spray cut *Chrysanthemums*. The photographs and measurements were taken when plants were about three months old.

Botanical classification: *Chrysanthemum* × *morifolium* cultivar Yoswing.

Parentage:

Female, or seed, parent.—Proprietary seedling selection of *Chrysanthemum* × *morifolium* identified as code number T2575, not patented.

Male, or pollen, parent.—Proprietary seedling selection of *Chrysanthemum* × *morifolium* identified as code number R314, not patented.

Propagation:

Type.—Terminal vegetative cuttings.

Time to initiate roots.—About ten to 14 days with soil temperatures of about 18° C. to 21° C.

Root description.—Fine, fibrous; white in color.

Rooting habit.—Freely branching.

Plant description:

Appearance.—Herbaceous decorative-type cut flower that is typically grown as a natural spray.

Flowering stem description.—Aspect: Erect. Length: About 91 cm. Diameter: About 1.1 cm. Internode length: About 3 cm. Texture: Pubescent; longitudinally ridged. Color: 146B.

Foliage description.—Arrangement: Alternate; simple. Length: About 13 cm. Width: About 8 cm. Apex: Mucronate to acuminate. Base: Attenuate with truncate tendencies. Margin: Palmately lobed; sinuses mostly parallel. Texture, upper and lower surfaces: Pubescent; veins prominent on lower surface. Color: Developing foliage, upper and lower surfaces: 147A. Fully expanded foliage, upper surface: Darker than 147A; venation, 146C. Fully expanded foliage, lower surface: 147A; venation, 146C. Petiole: Length: About 3 cm. Diameter: About 4 mm. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: 147C.

Inflorescence description:

Appearance.—Decorative-type inflorescence form with elongated oblong-shaped ray florets. Inflorescences borne on terminals, arising from leaf axils. Ray and disc florets develop acropetally on a capitulum. Uniformly flowering. Inflorescences not fragrant.

Flowering response.—Under natural conditions, plant flower in the autumn/winter in the Northern Hemisphere. At other times of the year, inflorescence initiation and development can be induced under short day/long night conditions (at least 13.5 hours of darkness). Plants exposed to two weeks of long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about 63 days later when grown as a natural spray.

Postproduction longevity.—In an interior environment, inflorescences and foliage will maintain good color and substance for about two weeks in an interior environment.

Quantity of inflorescences.—Freely flowering habit, about 11 to 13 inflorescences per stem develop.

Spray width.—About 24 cm.

Inflorescence size.—Diameter: About 8 cm. Depth (height): About 2.5 cm. Disc diameter: About 5 mm. Receptacle diameter: About 2 cm. Receptacle height: About 6 mm.

Inflorescence buds.—Shape: Ovate. Height: About 1.5 cm. Diameter: About 1.2 cm. Color: Slightly darker than 59A.

Ray florets.—Shape: Elongated oblong to ligulate. Surface: Mostly flat. Aspect: Initially upright; when mature, mostly perpendicular to peduncle. Length: About 4.6 cm. Width: About 1.2 cm. Apex: Acute. Base: Acute, attenuate. Margin: Entire. Texture: Smooth, glabrous; velvety; longitudinally ridged. Number of ray florets per inflorescence: About 145 arranged in numerous rows. Color: When opening, upper surface: Darker than 59A. When opening, lower surface: 71A. Fully opened, upper surface: 59B; color does not fade with development. Fully opened, lower surface: Slightly more grey than 71B.

Disc florets.—Shape: Tubular, elongated. Length: About 5 mm. Diameter, apex: About 1.5 mm. Diameter, base: About 1 mm. Number of disc florets per inflorescence: About 48; inconspicuous. Color: Immature: Close to 145A. Mature: Apex: Close to 1A. Mid-section: Close to 1C. Base: Close to 1D.

Phyllaries.—Quantity per inflorescence/arrangement: About 26 arranged in about three whorls. Length:

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About 1 cm. Width: About 3.5 mm. Shape: Deltoid. Apex: Acute. Base: Truncate. Margin: Entire. Texture, upper surface: Smooth, waxy. Texture, lower surface: Pubescent. Color, upper surface: Close to 146A. Color, lower surface: Close to 147B.

Peduncles.—Length: First peduncle: About 13.5 cm. Fourth peduncle: About 19 cm. Seventh peduncle: About 21.4 cm. Diameter: About 2.5 mm. Angle: About 45° from vertical. Strength: Strong. Texture: Pubescent; longitudinally ridged. Color: Close to 148A.

Reproductive organs.—Androecium: Present on disc florets only. Anther shape: Oblong. Anther length: About 1.2 mm. Anther color: Close to 9A. Amount of pollen: None observed. Gynoecium: Present on both ray and disc florets. Pistil length: About 5 mm.

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Stigma shape: Bi-parted. Stigma color: Close to 12A. Style length: About 3 mm. Style color: Close to 145D. Ovary color: Close to 157A.

Seed/fruit.—Seed and fruit production has not been observed.

Disease/pest resistance: Resistance to pathogens and pests common to *Chrysanthemums* has not been observed on plants grown under commercial conditions.

Temperature tolerance: Plants of the new *Chrysanthemum* have demonstrated good tolerance to low temperatures of about 4° C. and high temperatures of about 35° C.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named 'Yoswing' as illustrated and described.

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