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Vandenberg

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(54) **CHRYSANTHEMUM PLANT NAMED**
‘YOLUST’

(51) **Int. Cl.**
A01H 5/00 (2006.01)

(50) Latin Name: *Chrysanthemum*×*morifolium*
Varietal Denomination: **Yolust**

(52) **U.S. Cl.** **Plt./298**

(58) **Field of Classification Search** **Plt./298**
See application file for complete search history.

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(57) **ABSTRACT**

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

A new and distinct cultivar of *Chrysanthemum* plant named
‘Yolust’, characterized by its upright plant habit; dark green-
colored foliage; freely and uniformly flowering habit; large
daisy-type inflorescences; attractive purple-colored ray flo-
rets; strong and thick peduncles; and good postproduction
longevity.

(21) Appl. No.: **12/011,394**

(22) Filed: **Jan. 25, 2008**

2 Drawing Sheets

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Botanical designation: *Chrysanthemum*×*morifolium*.
Cultivar denomination: ‘Yolust’.

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 ‘Yolust’.

The new *Chrysanthemum* is a product of a planned breed-
ing 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
numerous inflorescences with strong peduncles, good form
and substance, attractive floret coloration and good postpro-
duction longevity.

The new *Chrysanthemum* originated from a cross-
pollination made by the Inventor in December, 2000, in
Salinas, Calif. of a proprietary selection of *Chrysanthemum*×
morifolium identified as code number T2798, not patented,
as the female, or seed, parent with the *Chrysanthemum*×
morifolium cultivar Joker, disclosed in U.S. Plant Pat. No.
14,560, 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 March, 2002. The selection of this plant was based on its
strong peduncles, desirable ray floret color, good inflores-
cence form and substance and good postproduction longev-
ity.

Asexual reproduction of the new *Chrysanthemum* by ter-
minal cuttings in a controlled environment in Bogota,
Colombia since May, 2002, has shown that the unique fea-
tures of this new *Chrysanthemum* are stable and reproduced
true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the cultivar Yolust have not been observed under
all possible environmental conditions. The phenotype may
vary somewhat with variations in environment such as

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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 ‘Yolust’.
These characteristics in combination distinguish ‘Yolust’ as
a new and distinct cultivar of *Chrysanthemum*:

1. Upright plant habit.
2. Dark green-colored foliage.
3. Freely and uniformly flowering habit.
4. Large daisy-type inflorescences that are about 8.5 cm in
diameter.
5. Attractive purple-colored ray florets.
6. Response time about 65 days.
7. Strong and thick 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 than
plants of the female parent selection.
2. Plants of the new *Chrysanthemum* flower about three to
five days later than plants of the female parent selec-
tion.
3. Inflorescences of plants of the new *Chrysanthemum*
have purple-colored ray florets whereas inflorescences
of plants of the female parent selection have pink-
colored ray florets.

Plants of the new *Chrysanthemum* differ from plants of
the male parent, the cultivar Joker, in the following charac-
teristics:

1. Plants of the new *Chrysanthemum* have stronger and
heavier flowering stems than plants of the cultivar
Joker.
2. Plants of the new *Chrysanthemum* flower about four to
five days earlier than plants of the cultivar Joker.
3. Inflorescences of plants of the new *Chrysanthemum*
have purple-colored ray florets whereas inflorescences

of plants of the cultivar Joker have red-colored ray florets.

Plants of the new *Chrysanthemum* can be compared to plants of the *Chrysanthemum* cultivar Balsas, disclosed in U.S. Plant Pat. No. 15,331. In side-by-side comparisons conducted in Bogota, Colombia, plants of the new *Chrysanthemum* differed from plants of the cultivar Balsas in the following characteristics:

1. Plants of the new *Chrysanthemum* had stronger and heavier flowering stems than plants of the cultivar Balsas.
2. Plants of the new *Chrysanthemum* flowered about three to four days later than plants of the cultivar Balsas.
3. Plants of the new *Chrysanthemum* produced fewer inflorescences per flowering stem than plants of the cultivar Balsas.
4. Plants of the new *Chrysanthemum* had larger inflorescences than plants of the cultivar Balsas.
5. Plants of the new *Chrysanthemum* had longer peduncles than plants of the cultivar Balsas.

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 on the first sheet comprises a side perspective view of a typical flowering stem of 'Yolust'.

The photograph on the second sheet is a close-up view of typical inflorescences of 'Yolust'.

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 Bogota, Colombia during the summer and autumn in a polyethylene-covered greenhouse and under conditions and practices which approximate those generally used in commercial *Chrysanthemum* production. During the production of the cut flowers, day temperatures ranged from 20° C. to 25° C., night temperatures ranged from 4° C. to 9° C. and light levels ranged from 3,000 to 4,000 foot-candles. Measurements and numerical values represent averages for typical flowering plants. The photographs and measurements were taken from flowering stems of plants that were about three months old.

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

Parentage:

Female, or seed, parent.—Proprietary selection of *Chrysanthemum*×*morifolium* identified as code number T2798, not patented.

Male, or pollen, parent.—*Chrysanthemum*×*morifolium* cultivar Joker, disclosed in U.S. Plant Pat. No. 14,560.

Propagation:

Type.—Terminal vegetative cuttings.

Time to initiate roots.—About 10 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 daisy-type cut flower.

Flowering stem description.—Aspect: Erect. Length: About 102 cm. Spray diameter: About 16.5 cm. Stem diameter: About 8.5 mm. Internode length: About 3.5 cm. Texture: Pubescent; longitudinally ridged. Color: Close to 146A.

Foliage description.—Arrangement: Alternate; simple. Length: About 8.75 cm. Width: About 5.9 cm. Apex: Cuspidate. Base: Truncate. Margin: Palmately lobed; irregularly serrate; sinuses parallel to slightly divergent. Texture, upper and lower surfaces: Pubescent; veins prominent on lower surface. Color: Developing and fully expanded foliage, upper surface: Close to 147A; venation, close to 147B. Developing and fully expanded foliage, lower surface: Close to 147B; venation, close to 147B. Petiole: Length: About 1.9 cm. Diameter: About 5 mm. Texture, upper and lower surfaces: Pubescent. Color, upper surface: Center, close to 147B; towards the margins, close to 147A. Color, lower surface: 147B to 147C.

Inflorescence description:

Appearance.—Daisy-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. Uniform flowering habit.

Fragrance.—Moderate; spicy.

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 65 days later.

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 six inflorescences per stem develop.

Inflorescence size.—Diameter: About 8.5 cm. Depth (height): About 1.6 cm. Disc diameter: About 2.2 cm. Receptacle diameter: About 1 cm. Receptacle height: About 9 mm.

Inflorescence buds.—Shape: Oblate. Height: About 2 cm. Diameter: About 1.5 cm. Color: More green than 147A.

Ray florets.—Shape: Elongated oblong. Surface: Concave to flat; eventually reflexing. Aspect: Initially incurved, with development, perpendicular to peduncle axis. Length: About 4.1 cm. Width: About 1.3 cm. Apex: Acute to emarginate. Base: Fused. Corolla tube length: About 6 mm. Corolla tube diameter, at base: About 2 mm. Texture: Smooth, glabrous; velvety; longitudinally ridged. Number of ray florets per inflorescence: About 42 arranged in about three whorls. Color: When opening and fully

opened, upper surface: Close to 155D heavily overlain with close to 72A. When opening and fully opened, lower surface: Close to 155D underlain with close to 77A.

Disc florets.—Shape: Tubular, elongated; typically five-parted. Length: About 7 mm. Diameter, apex: About 2 mm. Diameter, base: About 1 mm. Texture, outer and inner surfaces: Smooth, glabrous. Number of disc florets per inflorescence: About 321 in numerous whorls. Color, immature, outer and inner surfaces: Apex: Close to 154A. Mid-section and base: Close to 155D. Color, mature, outer and inner surfaces: Apex: Close to 9A. Mid-section: Close to 151D. Base: Close to 155D.

Phyllaries.—Quantity per inflorescence/arrangement: About 24 arranged in about three whorls. Length: About 9 mm. Width: About 4 mm. Shape: Lanceolate. Apex: Acute. Base: Truncate. Margin: Entire. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Pubescent. Color, upper surface: Close to 143A. Color, lower surface: More green than 147A.

Peduncles.—Length, terminal peduncle: About 10.75 cm. Length, fourth peduncle: About 15.75 cm. Diameter, terminal peduncle: About 4 mm. Angle:

About 30° to 45° from vertical. Strength: Strong. Texture: Pubescent; longitudinally ridged. Color: Close to 146A.

Reproductive organs.—Androecium: Filament length: About 6 mm. Filament color: Close to 154D. Anther length: Less than 1 mm. Anther shape: Narrowly oblong. Anther color: Close to 9A. Pollen amount: None observed. Gynoecium: Pistil length: About 7 mm. Stigma shape: Bi-parted. Stigma color: Close to 9A. Style length: About 5 mm. Style color: Close to 154D. Ovary color: Close to 157A.

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

Diseases/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 'Yolust' as illustrated and described.

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