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Bergman

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

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

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patent is extended or adjusted under 35
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(58) **Field of Classification Search** **Plt./287**
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named
‘Yobrunswick’, characterized by its uniform and outwardly
spreading plant habit; strong and freely branching growth
habit; dark green-colored foliage; uniform flowering
response and habit; typically grown as a spray-type; early
flowering habit; daisy-type inflorescences with spoon-
shaped ray florets; white-colored ray florets; and good
postproduction longevity with plants maintaining good sub-
stance and color for about three weeks in an interior envi-
ronment.

2 Drawing Sheets

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Botanical classification/cultivar designation: *Chrysanthemum*×*morifolium* cultivar Yobrunswick.

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct culti-
var of *Chrysanthemum* plant, botanically known as
Chrysanthemum×*morifolium* and hereinafter referred to by
the name ‘Yobrunswick’.

The new *Chrysanthemum* is a product of a planned
breeding program conducted by the Inventor in Salinas,
Calif. and Fort Myers, Fla. The objective of the program is
to create or discover new potted *Chrysanthemum* cultivars
that are suitable for year-round production with uniform
plant growth habit, good vigor and strong branching habit,
numerous inflorescences, desirable inflorescence form and
florete colors, fast and uniform flowering response, and good
postproduction longevity.

The new *Chrysanthemum* originated from a cross-
pollination made by the Inventor in April, 2000, in Salinas,
Calif., of a proprietary *Chrysanthemum* seedling selection
identified as code number YB-A2427, not patented, as the
female, or seed, parent with a proprietary *Chrysanthemum*
seedling selection identified as code number YB-6604, not
patented, as the male, or pollen, parent. The new *Chrysan-*
themum was discovered and selected by the Inventor in
March, 2001, as a single flowering plant from within the
resulting progeny of the stated cross-pollination grown in a
controlled environment in Fort Myers, Fla.

The selection of this plant was based on its uniform plant
growth habit, good vigor and strong branching habit, numer-
ous inflorescences, desirable inflorescence form and floret
colors, fast and uniform flowering response, and good
postproduction longevity.

Asexual reproduction of the new *Chrysanthemum* by
vegetative tip cuttings was first conducted in Fort Myers,
Fla. in June, 2001. Asexual reproduction by cuttings has

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shown that the unique features of this new *Chrysanthemum*
are stable and reproduced true to type in successive genera-
tions.

SUMMARY OF THE INVENTION

The cultivar Yobrunswick has not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as
temperature, daylength, and/or light level, without, however,
any variance in genotype.

The following traits have been repeatedly observed and
are determined to be the unique characteristics of ‘Yobrun-
swick’. These characteristics in combination distinguish
‘Yobrunswick’ as a new and distinct *Chrysanthemum*:

1. Uniform and outwardly spreading plant habit.
2. Strong and freely branching growth habit.
3. Dark green-colored foliage.
4. Uniform flowering response and habit.
5. Typically grown as a spray-type.
6. Early flowering, eight week response time.
7. Daisy-type inflorescences with spoon-shaped ray florets.
8. White-colored ray florets.
9. Good postproduction longevity with plants maintaining good substance and color for about three weeks in an interior environment.

Plants of the new *Chrysanthemum* can be compared to
plants of the female parent selection. Plants of the new
Chrysanthemum differ from plants of the female parent
selection primarily in inflorescence form and ray floret
coloration as plants of the female parent selection have
anemone-type inflorescences with light pink-colored ray
florets. In addition, plants of the new *Chrysanthemum* flower
about one week later than plants of the female parent
selection.

Plants of the new *Chrysanthemum* can be compared to plants of the male parent selection. Plants of the new *Chrysanthemum* differ from plants of the male parent selection primarily in ray floret shape and coloration as plants of the male parent selection have elongated oblong-shaped and pink-colored ray florets. In addition, disc florets of plants of the new *Chrysanthemum* do not produce pollen whereas disc florets of plants of the male parent selection produce pollen.

Plants of the new *Chrysanthemum* can be compared to plants of the cultivar Yomankato, disclosed in U.S. Plant Pat. No. 13,057. In side-by-side comparisons conducted in Fort Myers, Fla., plants of the new *Chrysanthemum* differed from plants of the cultivar Yomankato in the following characteristics:

1. Plants of the new *Chrysanthemum* were taller and more outwardly spreading than plants of the cultivar Yomankato.
2. Plants of the new *Chrysanthemum* and the cultivar Yomankato differed in inflorescence form as plants of the cultivar Yomankato had anemone-type inflorescences.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new *Chrysanthemum* showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ 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 typical flowering plants of 'Yobrunswick' grown as spray-types.

The photograph on the second sheet comprises a close-up view of typical inflorescences of 'Yobrunswick' grown as spray-types.

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, following observations and measurements describe plants grown and flowered during the autumn in Salinas, Calif., in a fiberglass-covered greenhouse and under conditions which approximate those generally used in commercial potted *Chrysanthemum* production. During the production of these plants, the following conditions were measured: day temperatures, 21 to 27° C.; night temperatures, 17 to 19° C.; and light levels, 5,000 to 6,000 foot-candles. Four unrooted cuttings were directly stuck in 15-cm containers, exposed to long day/short night conditions, and pinched once about two weeks later. At the time of the pinch, the photoinductive short day/long night treatments were initiated. Plants used for the description were grown as spray-types. Measurements and numerical values represent averages of typical flowering plants.

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

Commercial classification: Daisy-type potted *Chrysanthemum*.

Parentage:

Female, or seed, parent.—Proprietary *Chrysanthemum*×*morifolium* seedling selection identified as code number YB-A2427, not patented.

Male, or pollen, parent.—Proprietary *Chrysanthemum*×*morifolium* seedling selection identified as code number YB-6604, not patented.

Propagation:

Type.—Terminal tip cuttings.

Time to initiate roots.—About four days at 21° C.

Time to produce a rooted cutting.—About ten days at 21° C.

Root description.—White, close to 155D; fibrous.

Rooting habit.—Freely branching; moderately dense.

Plant description:

Appearance.—Herbaceous daisy-type potted *Chrysanthemum* that is typically grown as a spray-type. Upright with lateral branches outwardly spreading; uniformly mounded crown. Strong and freely branching growth habit; about four to five lateral branches develop after removal of terminal apex (pinching); dense and full plants.

Plant height.—About 28 cm.

Plant width.—About 45 cm.

Lateral branches.—Length: About 21 cm. Diameter: About 4 mm. Internode length: About 2.25 cm. Strength: Strong. Texture: Pubescent. Color: Close to 144A.

Foliage description.—Arrangement: Alternate; simple. Length: About 6.2 cm. Width: About 5.2 cm. Apex: Mucronate. Base: Attenuate. Margin: Palmately lobed, sinuses between lateral lobes parallel to divergent. Texture, upper and lower surfaces: Pubescent. Color: Developing foliage, upper surface: Darker green to 147A. Developing foliage, lower surface: Darker green to 147B. Fully expanded foliage, upper surface: Close to 147A. Fully expanded foliage, lower surface: More green than 147B. Venation, upper surface: Close to 147A to 147B. Venation, lower surface: Close to 147B. Petiole length: About 2.6 cm. Petiole diameter: About 4.5 mm. Petiole color, upper surface: More green than 147A. Petiole color, lower surface: Close to 147B to 147C.

Inflorescence description:

Appearance.—Daisy-type inflorescence form with spoon-shaped ray florets. Inflorescences borne on terminals above foliage. Disk and ray florets develop acropetally on a capitulum. Inflorescences not fragrant.

Flowering response.—Under natural conditions, plants 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). Uniform and early flowering habit; plants exposed to two weeks of long day/short night conditions followed by photoinductive short day/long night conditions flower about eight weeks later.

Postproduction longevity.—Inflorescences maintain good color and substance for about three weeks in an interior environment.

Quantity of inflorescences.—Grown as a spray-type, about six inflorescences develop per lateral branch.

Inflorescence bud.—Height: About 6 mm. Diameter: About 7 mm. Shape: Oblate. Color: Close to 146A.

Inflorescence diameter.—About 7.9 cm.

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Inflorescence depth (height).—About 3 cm.

Diameter of disc.—About 1.8 cm.

Receptacle diameter.—About 8 mm.

Ray florets.—Shape: Spoon-shaped. Orientation: Upright, about 30° from the peduncle. Aspect: Mostly straight. Length: About 4 cm. Width: About 1.1 cm. Corolla tube length: About 2.5 cm. Corolla tube diameter: About 2 mm. Apex: Rounded to acute. Base: Fused into a corolla tube. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; satiny. Number of ray florets per inflorescence: About 22 arranged in a single whorl. Color: When opening and fully opened, upper surface: Close to 155D. When opening and fully opened, lower surface: Close to 155D.

Disc florets.—Arrangement: Massed at center of receptacle. Shape: Tubular. Apex: Five-pointed. Length: About 7 mm. Diameter, apex: About 2 mm. Diameter, base: About 1 mm. Number of disc florets per inflorescence: Numerous, about 205. Color: Immature: Close to 144A. Mature, apex: 9A. Mature, mid-section: Close to 145B to 145C. Mature, base: Close to 155D.

Phyllaries.—Quantity per inflorescence: About 20. Length: About 9 mm. Width: About 3 mm. Shape:

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Lanceolate. Apex: Acute. Base: Truncate. Margin: Entire. Texture, upper surface: Waxy, smooth. Texture, lower surface: Pubescent. Color, upper surface: More green than 144A. Color, lower surface: Close to 146A.

Peduncles.—Length, terminal peduncle: About 3.6 cm. Length, fourth peduncle: About 5.2 cm. Diameter: About 2 mm. Strength: Strong. Texture: Pubescent. Color: Close to 144A to 146A.

Reproductive organs.—Androecium: Present on disc florets only. Anther color: Close to 9A to 12A. Pollen amount: None observed. Gynoecium: Present on both ray and disc florets. Style color: Close to 144C. Stigma color: Close to 9A.

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 greenhouse conditions. It is claimed:

1. A new and distinct cultivar of *Chrysanthemum* plant named 'Yobrunswick', as illustrated and described.

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