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

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(54) ***ARGYRANTHEMUM* PLANT NAMED 'BONMADCHER'**

(50) Latin Name: ***Argyranthemum×hybrida***
Varietal Denomination: **Bonmadcher**

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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.

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(58) **Field of Classification Search** Plt./263, Plt./406
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Argyranthemum* plant named 'Bonmadcher', characterized by its single type dark pink-colored flowers, medium green-colored foliage, and moderately vigorous, compact, and upright-mounded growth habit.

1 Drawing Sheet

Latin name of genus and species of plant claimed: *Argyranthemum×hybrida.*

Variety denomination: 'Bonmadcher'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Argyranthemum* plant botanically known as *Argyranthemum×hybrida* and hereinafter referred to by the cultivar name 'Bonmadcher'.

The new cultivar originated in a controlled breeding program in Yellow Rock, New South Wales, Australia during July 2003. The objective of the breeding program was the development of *Argyranthemum* cultivars that are freely flowering with unique flower coloration and a freely branching, compact, and upright growth habit.

The new *Argyranthemum* cultivar is the result of cross-pollination. The female (seed) parent of the new cultivar is the proprietary *Argyranthemum×hybrida* breeding selection designated 03-26, not patented, characterized by its semi-double type medium pink-colored flowers, medium green-colored foliage, and mounded growth habit. The male (pollen) parent of the new cultivar is from a bulk pollen mix of 32 proprietary *Argyranthemum×hybrida* breeding selections designated 03-21 through to 03-49 and 03-57, 03-133, and 03-148, not patented, characterized by their single to semi-double type red and pink-colored flowers, various shades of green-colored foliage, and various growth habits. The new cultivar was discovered and selected as a single flowering plant within the progeny of the above stated cross-pollination during July 2004 in a controlled environment at Yellow Rock, New South Wales, Australia.

Asexual reproduction of the new cultivar by terminal stem cuttings since July 2004 at Yellow Rock, New South Wales, Australia and West Chicago, Ill. has demonstrated that the new cultivar reproduces true to type with all of the characteristics, as herein described, firmly fixed and retained through successive generations of such asexual propagation.

SUMMARY OF THE INVENTION

The following characteristics of the new cultivar have been repeatedly observed and can be used to distinguish

'Bonmadcher' as a new and distinct cultivar of *Argyranthemum* plant:

1. Single type dark pink-colored flowers;
2. Medium green-colored foliage; and
3. Moderately vigorous, compact, and upright-mounded.

Plants of the new cultivar differ from plants of the female parent primarily in flower form and flower color.

Of the many commercially available *Argyranthemum* cultivars known to the inventor, the most similar in comparison to the new cultivar is Maderia™ Deep Rose 'OHMADSANT' U.S. Plant Pat. No. 16,637. However, in side by side comparisons, plants of the new cultivar differ from plants of 'OHMADSANT' in the following characteristics:

1. Plants of the new cultivar are shorter and narrower than plants of 'OHMADSANT'; and
2. Plants of the new cultivar have fewer inflorescences than plants of 'OHMADSANT'.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs show, as nearly true as it is reasonably possible to make the same in color illustrations of this type, typical flower and foliage characteristics of the new cultivar. Colors in the photographs differ slightly from the color values cited in the detailed description, which accurately describes the colors of 'Bonmadcher'. The plants were grown in 4.5 inch pots for 10 weeks in a greenhouse at West Chicago, Ill.

FIG. **1** illustrates a side view of the overall growth and flowering habit of 'Bonmadcher'.

FIG. **2** illustrates a close-up view of an individual inflorescence of 'Bonmadcher'.

DETAILED BOTANICAL DESCRIPTION

The new cultivar has not been observed under all possible environmental conditions to date. Accordingly, it is possible that the phenotype may vary somewhat with variations in the environment, such as temperature, light intensity, and day length, without, however, any variance in genotype.

The chart used in the identification of colors described herein is The R.H.S. Colour Chart of The Royal Horticultural Society, London, England, 2001 edition, except where general color terms of ordinary significance are used. The color values were determined on Jul. 11, 2006 between 9:00 a.m. and 11:00 a.m. under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe plants produced from cuttings taken from stock plants and grown in a glass-covered greenhouse under conditions comparable to those used in commercial practice. The plants were grown at West Chicago, Ill. in 4.5 inch pots for 10 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 70° F. to 77° F. (21° C. to 25° C.) during the day and approximately 65° F. to 68° F. (18° C. to 20° C.) during the night. Greenhouse light levels of 2,500 footcandles to 6,000 footcandles were maintained during the day.

Botanical classification: *Argyranthemum×hybrida* cultivar Bonmadcher.

Parentage:

Female parent.—Proprietary *Argyranthemum×hybrida* breeding selection designated 03-26, not patented.

Male parent.—Pollen mix of 32 proprietary *Argyranthemum×hybrida* breeding selections designated 03-21 through to 03-49 and 03-57, 03-133, and 03-148, not patented.

Propagation:

Type cutting.—Terminal stem.

Time to initiate roots.—Approximately 6 to 8 days.

Time to produce a rooted cutting.—Approximately 21 to 28 days.

Root description.—Fibrous.

Rooting habit.—Freely branching.

Plant description:

Crop time.—Approximately 6 to 9 weeks from a rooted cutting.

Growth habit and general appearance.—Moderately vigorous, compact, and upright-mounded.

Size.—Height from soil level to top of plant plane: Approximately 14.4 cm. Width: Approximately 17.5 cm.

Branching habit.—Freely branching. Quantity of main branches per plant: Approximately 4.

Branch.—Strength: Strong. Length from soil level to base of peduncle: Approximately 7.6 cm. Diameter: Approximately 3.3 mm. Length of central internode: Approximately 3.9 mm. Texture: Glabrous. Color of young stem: Glaucous, 144D. Color of mature stem: Glaucous, 144C with woody base of 199B.

Foliage description:

General description.—Quantity of leaves per main branch: Approximately 20. Fragrance: Slight. Form: Simple. Arrangement: Alternate.

Leaves.—Aspect: Acute angle to stem; leaf blade obtuse angle to stem with age. Shape: Obovate. Margin: Parted. Apex: Acute, cuspidate. Base: Attenuate, decurrent. Venation pattern: Pinnate. Length of mature leaf: Approximately 5.3 cm. Width of mature leaf: Approximately 3.3 cm. Texture of upper and lower surfaces: Glabrous. Color of upper surface of young and mature foliage: Glaucous, 137B with venation of 137D. Color of lower surface of young and mature foliage: 138B with venation of 138B.

Flowering description:

Flowering habit.—'Bonmadcher' is freely flowering under outdoor growing conditions with substantially continuous blooming from spring through autumn and year-round in greenhouse environment.

Lastingness of individual inflorescence on the plant.—Approximately 12 to 14 days.

Inflorescence description:

General description.—Type: Solitary, composite. Persistent. Shape: Round. Aspect: Facing upward and outward. Arrangement: Terminal, positioned above the foliage. Disc and ray florets develop acropetally on a capitulum. Quantity per plant: Approximately 7. Diameter: Approximately 3.1 cm. Fragrance: None.

Peduncle.—Strength: Strong, pliable. Aspect: Erect. Length: Approximately 6.5 cm. Diameter: Approximately 2.0 mm. Texture: Glabrous. Color: Glaucous, 144A.

Bud.—Rate of opening: Generally takes 6 to 7 days for bud to progress from first color to fully open flower. Quantity per plant. Approximately 1.

Bud just before opening.—Shape: Ovoid. Diameter: Approximately 7.0 mm. Color: N57A.

Ray florets.—Quantity per inflorescence: Approximately 15. Arrangement: Nonimbricate in a single whorl. Aspect: Slightly convex, turning downward with age. Shape: Ligulate. Margin: Entire. Apex: Emarginate with 3 tips. Base: Attenuate, fused to form a tube. Length: Approximately 1.2 cm. Width: Approximately 4.0 mm. Texture of upper surface: Glabrous. Texture of lower surface: Glabrous, ribbed. Color of upper surface when first open: N57A with base of 155D. Color of lower surface when first open: Closest to N57C with base of 155D. Color of upper surface when fully open: Between N57A and N57B transitioning to 70D with age, and base of 155D. Color of lower surface when fully open: N57D with base of 155D.

Disc florets.—Quantity per inflorescence: Approximately 140. Arrangement: Massed in center of inflorescence. Shape: Tubular with 5 lobes. Margin: Entire. Apex: Acute. Base: Truncate. Length: Approximately 6.0 mm. Diameter at apex: Approximately 2.0 mm. Diameter at base: Approximately 1.0 mm. Texture: Glabrous with glandular pubescence on fused portion. Gland color: Colorless. Color when fully open: 53B at lobe tips and 13A in center of lobes transitioning 145D at base.

Disc.—Diameter: Approximately 1.4 cm. Depth: Approximately 1.0 cm.

Receptacle.—Shape: Cone. Height: Approximately 3.0 mm. Diameter at base: Approximately 4.0 mm. Color: 145B.

Phyllaries.—Quantity per inflorescence Approximately 24. Arrangement: Imbricate, in several whorls. Shape: Lanceolate. Margin: Entire. Apex: Acute. Base: Truncate. Length: Approximately 4.2 mm. Width: Approximately 2.0 mm. Texture of upper and lower surfaces: Glabrous, papery along edges. Color of upper surface: 143C in center with transparent margins of N199B. Color of lower surface: Closest to 143D in center with transparent margins of N199B.

Reproductive organs.—Androecium: Present on disc florets only. Stamen quantity: 5 per floret. Stamen

length: Approximately 3.0 mm. Anther shape: Linear. Anther length: Approximately 1.0 mm. Anther color: 158A. Pollen amount: None observed. Gynoecium: Present on ray and disc florets. Pistil quantity: 1 per floret. Pistil length: Approximately 6.0 mm. Stigma shape: Two-parted. Stigma length: Less than 1 mm. Stigma color: 13A. Style length: Approximately 4.0 mm. Style color: 53B at apex transitioning to 145D, transparent. Ovary length: Approximately 2.0 mm. Ovary color: Lighter than 145D.

Seed and fruit production: Neither seed nor fruit production has been observed.

Disease and pest resistance: Resistance to pathogens and pests common to *Argyranthemum* has not been observed.

What is claimed is:

1. A new and distinct cultivar of *Argyranthemum* plant named 'Bonmadcher', substantially as herein shown and described.

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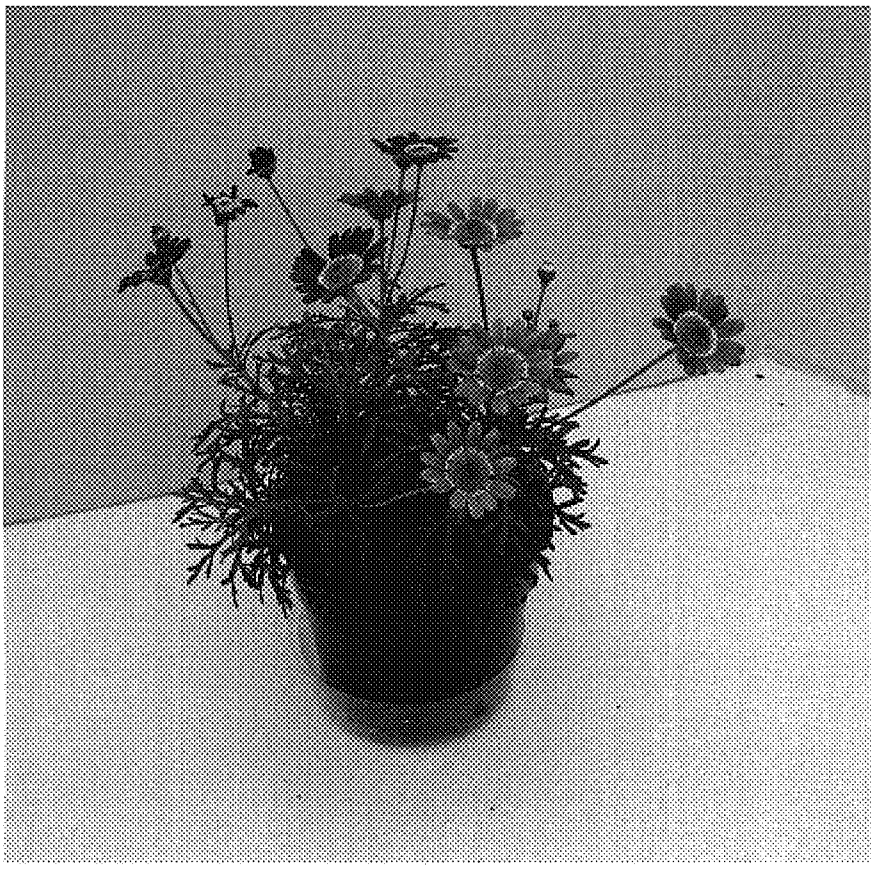

FIG. 1

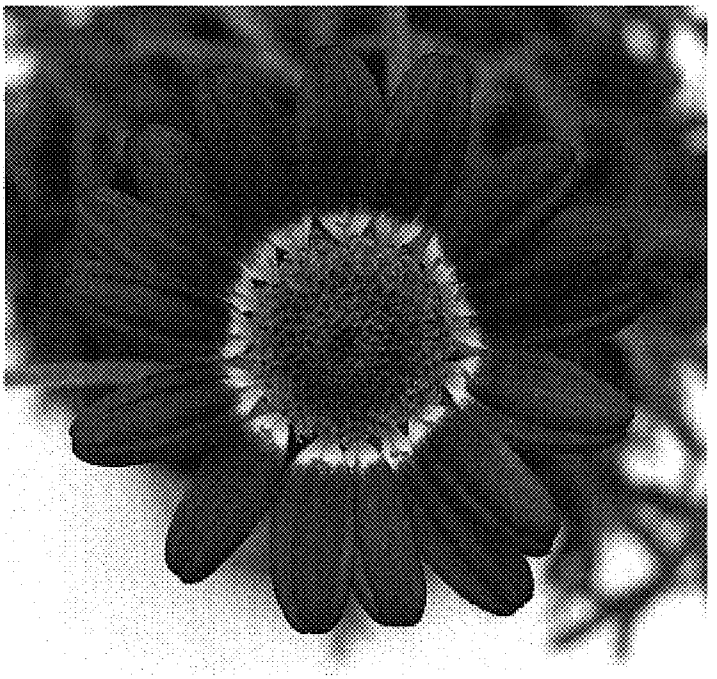

FIG. 2