



US00PP13826P29

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

(10) **Patent No.:** **US PP13,826 P2**

(45) **Date of Patent:** **May 20, 2003**

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

(52) **U.S. Cl.** **Plt./263**

(58) **Field of Search** **Plt./263**

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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 *Argyranthemum* plant named
'Supagem', characterized by its compact, mounded, upright
and outwardly spreading plant habit; freely branching habit,
dense and bushy plants; freely flowering habit with numer-
ous inflorescences per plant; and double inflorescence form
with white-colored ray florets.

(21) **Appl. No.:** **10/142,848**

(22) **Filed:** **May 10, 2002**

(51) **Int. Cl.**⁷ **A01H 5/00**

1 Drawing Sheet

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BOTANICAL CLASSIFICATION/CULTIVAR
DENOMINATION

Argyranthemum frutescens cultivar Supagem.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Argyranthemum* plant, botanically known as *Argyranthe-*
mum frutescens and hereinafter referred to by the cultivar
name 'Supagem'.

The new *Argyranthemum* is a product of a planned
breeding program conducted by the Inventor in Cobbitty,
New South Wales, Australia. The objective of the program
is to create and develop new compact *Argyranthemum*
cultivars with numerous inflorescences, interesting inflores-
cence form, and attractive ray floret coloration.

The new *Argyranthemum* originated from a cross-
pollination by the Inventor of the *Argyranthemum frutescens*
Sugar Button, disclosed in U.S. Plant Pat. No. 11,980, as the
female, or seed, parent, with a proprietary selection of
Argyranthemum frutescens identified as code number
X96.1999.1, not patented, as the male, or pollen, parent. The
new *Argyranthemum* was discovered and selected by the
Inventor as a plant within the progeny of the stated cross-
pollination in a controlled environment in Cobbitty, New
South Wales, Australia in October, 1999. The selection of the
new *Argyranthemum* was based on its double inflorescence
form and white-colored ray florets.

Asexual reproduction of the new *Argyranthemum* by
terminal cuttings taken in a controlled environment in
Cobbitty, New South Wales, Australia since October, 1999,
has shown that the unique features of this new *Argyranthe-*
mum are stable and reproduced true to type in successive
generations.

SUMMARY OF THE INVENTION

The new *Argyranthemum* has not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as tempera-
ture and light intensity without, however, any variance in
genotype.

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The following characteristics have been repeatedly
observed and are determined to be basic characteristics of
'Supagem' and distinguish the new *Argyranthemum* as a
new and distinct cultivar:

- 5 1. Compact, mounded, upright and outwardly spreading
plant habit.
2. Freely branching habit, dense and bushy plants.
3. Freely flowering habit with numerous inflorescences
10 per plant.
4. Double inflorescence form with white-colored ray
florets.

Plants of the new *Argyranthemum* are most similar to
plants of the female parent, the cultivar Sugar Button. Plants
of the new *Argyranthemum* differ primarily from plants of
the cultivar Sugar Button in inflorescence form. Plants of the
new *Argyranthemum* differ from plants of the male parent
selection in inflorescence form and ray floret coloration.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the
overall appearance of the new cultivar, showing the colors as
true as it is reasonably possible to obtain in colored repro-
ductions 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
Argyranthemum.

The photograph at the top of the sheet comprises a side
perspective view of three typical flowering plants of 'Supa-
gem' grown in a 22-cm container.

The photograph at the bottom of the sheet comprises a
close-up view of typical leaves, an inflorescence bud, devel-
oping inflorescences, and fully opened inflorescences of
35 'Supagem'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs, following observations
and averaged measurements describe plants grown in
Encinitas, Calif., in an outdoor nursery under full sunlight
during late winter and early spring with day temperatures
averaging 15° C. and night temperatures averaging 10° C.

Plants were grown for about 14 weeks in 22-cm containers with three plants per container. Plants were pinched one time about five weeks after planting. Color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Argyranthemum frutescens* cultivar Supagem.

Parentage:

Female or seed parent.—*Argyranthemum frutescens* cultivar Sugar Button, disclosed in U.S. Plant Pat. No. 11,980.

Male or pollen parent.—Proprietary selection of *Argyranthemum frutescens* identified as code number X96.1999.1, not patented.

Propagation:

Type.—Terminal vegetative cuttings.

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

Time to produce a rooted cutting.—About 21 days at 20° C.

Root description.—Fibrous, fine and freely branching; white in color.

Plant description:

General appearance.—Inverted triangle; compact, mounded, upright and outwardly spreading plant form with dense foliage and inflorescences held just above the foliage on moderately strong peduncles. Vigorous growth habit.

Plant height.—About 33 cm.

Plant width, per plant.—About 34 cm.

Lateral branch description.—Quantity per plant: About seven primary lateral branches; each with about seven secondary lateral branches. Length, soil level to base of peduncle: About 16 cm. Diameter: About 5 mm. Internode length: About 1 cm. Aspect: Upright and outwardly spreading. Texture: Smooth, glabrous. Color: 144B.

Foliage description.—Arrangement: Alternate, simple. Length: About 4.5 cm. Width: About 4 cm. Shape: Pinnatifid, deeply and finely incised. Apex: Acute. Base: Attenuate. Margin: Entire; deeply and finely incised. Texture, upper and lower surfaces: Smooth, glabrous. Venation pattern: Pinnate. Petiole length: About 1 cm. Petiole diameter: About 4 mm. Petiole texture, upper and lower surfaces: Smooth, glabrous. Color: Young and fully expanded foliage, upper surface: 147A. Young and fully expanded foliage, lower surface: 147B. Venation, upper and lower surfaces: 147B. Petiole, upper and lower surfaces: 147C.

Inflorescence description:

Appearance.—Double composite inflorescence form with ligulate ray florets. Disc and ray florets develop acropetally on a capitulum. Inflorescences held upright on terminal and axillary peduncles. Inflorescences upright and perpendicular to the peduncles. Inflorescences persistent. Inflorescences not fragrant.

Flowering response.—Under natural conditions, plant flower from spring to early fall in Southern California; plants flower continuous during this period.

Inflorescence longevity.—Inflorescences last about five to seven days on the plant.

Quantity of inflorescences.—Freely flowering, about 13 buds and opened inflorescences per lateral branch.

Inflorescence size.—Diameter: About 4 cm. Depth (height): About 1.5 cm. Diameter of disc: About 1.5 mm; inconspicuous.

Inflorescence buds, at stage of showing color.—Height: About 1 cm. Diameter: About 6 mm. Shape: Ovoid. Color: 155A.

Ray florets.—Quantity per inflorescence: About 130 arranged in multiple whorls. Shape: Ligulate. Length: About 2.2 cm. Width: About 6 mm. Apex: Rounded to slightly emarginate. Base: Acute. Margin: Entire. Texture, upper and lower surfaces: Smooth, velvety. Aspect: Initially upright; when mature, about 90° from vertical; reflexing with subsequent development. Color: When opening and fully opened, upper surface: More white than 155D. When opening and fully opened, lower surface: More white than 155D.

Disc florets.—Arrangement: Massed at the center of the inflorescence. Quantity per inflorescence: About 10. Shape: Tubular, five-parted at apex; apex, acute; base, fused. Length: About 3.5 mm. Diameter, apex: About 2 mm. Diameter, base: Less than 1 mm. Color: Immature: 153C. Mature, apex and mid-section: 154B. Mature, base: 144D.

Involucral bracts (phyllaries).—Appearance: Scale-like; margins, papery. Quantity per inflorescence: About 25. Length: About 3 mm. Width: About 2 mm. Shape: Elliptic. Apex: Broadly acute. Base: Truncate. Margin: Entire. Texture, upper and lower surfaces: Glabrous, smooth. Color: Upper surface: 145A. Lower surface: 146B.

Peduncle.—Strength: Moderately strong; wiry. Aspect: Upright to about 45° from vertical. Length: About 10.5 cm. Diameter: About 1.5 mm. Texture: Smooth, glabrous. Color: 144A.

Reproductive organs.—Androecium: Present on disc florets only. Quantity per floret: Five fused around style. Anther shape: Ovoid. Anther length: Less than 1 mm. Anther color: 6A. Amount of pollen: Scarce to none. Pollen color: 6A. Gynoecium: Quantity per floret: One. Pistil length: About 6 mm. Stigma shape: Two-parted. Stigma color: 5A. Style length: About 3 mm. Style color: 150C. Ovary color: 150D. Seed/fruit: Seed and fruit production has not been observed.

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

Temperature/weather tolerance: Plants of the new *Argyranthemum* have been observed to be tolerant to rain, wind and to temperatures from -1 to 30° C.

It is claimed:

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

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