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

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

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

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

(56) **References Cited**  
PUBLICATIONS

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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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(57) **ABSTRACT**

(22) Filed: **Jan. 30, 2007**

A new and distinct cultivar of *Argyranthemum* plant named  
'Ohmadsaca', characterized by its compact, uniform and  
mounded plant habit; freely branching and vigorous growth  
habit; freely flowering habit; anemone type inflorescences  
with light purple-colored ray florets and purple-colored disc  
florets; and good garden performance.

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

(52) **U.S. Cl.** ..... **Plt./263.1**

**1 Drawing Sheet**

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Botanical designation: *Argyranthemum*×*hybrida*.  
Cultivar denomination: 'Ohmadsaca'.

**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  
name 'Ohmadsaca'.

The objective of the breeding program is to create new  
*Argyranthemum* cultivars with numerous inflorescences,  
attractive floret colors, and good garden performance.

The new *Argyranthemum* originated from a cross-  
pollination made by the Inventor in 2001 in Winmalee, New  
South Wales, Australia of a proprietary selection of  
*Argyranthemum*×*hybrida* identified as code number 01-180,  
not patented, as the female, or seed, parent with a proprietary  
selection of *Argyranthemum*×*hybrida* identified as code  
number 00-151, as the male, or pollen, parent. The new  
*Argyranthemum* was discovered and selected by the Inventor  
as a single flowering plant within the progeny of the stated  
open-pollination in a controlled environment in Winmalee,  
New South Wales, Australia.

Asexual reproduction of the new *Argyranthemum* by veg-  
etative tip cuttings was first conducted in Winmalee, New  
South Wales, Australia in September, 2003. Asexual repro-  
duction by cuttings has shown that the unique features of this  
new *Argyranthemum* are stable and reproduced true to type  
in successive generations.

**SUMMARY OF THE INVENTION**

Plants of the cultivar Ohmadsaca 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 'Ohm-  
adsaca'. These characteristics in combination distinguish  
'Ohmadsaca' as a new and distinct potted *Argyranthemum*  
cultivar:

1. Compact, uniform and mounded plant habit.
2. Freely branching and vigorous growth habit.
3. Freely flowering habit.
4. Anemone type inflorescences with light purple-colored  
ray florets and purple-colored disc florets.
5. Good performance.

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

1. Plants of the new *Argyranthemum* have larger inflores-  
cences than plants of the female parent selection.
2. Plants of the new *Argyranthemum* and the female par-  
ent selection differ in ray floret color as plants of the  
female parent selection have light pink-colored ray flo-  
rets.

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

1. Plants of the new *Argyranthemum* are more compact  
than plants of the male parent selection.
2. Plants of the new *Argyranthemum* have anemone type  
inflorescences whereas plants of the male parent selec-  
tion having single inflorescences.

Plants of the new *Argyranthemum* can be compared to  
plants of the *Argyranthemum* cultivar Ohmadsaom, dis-  
closed in U.S. Plant Pat. No. 16,630. In side-by-side com-  
parisons conducted in Winmalee, New South Wales,  
Australia, plants of the new *Argyranthemum* differed from  
plants of the cultivar Ohmadsaom in the following character-  
istics:

1. Plants of the new *Argyranthemum* were more freely branching than plants of the cultivar Ohmadsaom.
2. Plants of the new *Argyranthemum* had narrower leaves than plants of the cultivar Ohmadsaom.
3. Plants of the new *Argyranthemum* had larger inflorescences and larger ray florets than plants of the cultivar Ohmadsaom.
4. Plants of the new *Argyranthemum* and the cultivar Ohmadsaom differed in ray floret coloration as plants of the cultivar Ohmadsaom had white-colored ray florets and cream-colored disc florets.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall appearance of the new *Argyranthemum*. 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 *Argyranthemum*.

The photograph at the top of the sheet comprises a side perspective view of a typical flowering plant of 'Ohmadsaca' grown in a container.

The photograph at the bottom of the sheet is a close-up view of typical inflorescences of 'Ohmadsaca'.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and measurements describe plants grown during the summer and autumn in Higashiomi, Shiga, Japan in a greenhouse and under conditions and practices which approximate those generally used in commercial potted *Argyranthemum* production. During the production of the plants, day temperatures ranged from 25° C. to 30° C. and night temperatures ranged from 15° C. to 20° C. Plants were pinched one time. Plants used in the photographs and for the description were about three months old. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2001 Edition, except the general terms of ordinary dictionary significance are used.

Botanical classification: *Argyranthemum*×*hybrida* cultivar Ohmadsaca.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Argyranthemum*×*hybrida* identified as code number 01-180, not patented.

*Male, or pollen, parent.*—Proprietary selection of *Argyranthemum*×*hybrida* identified as code number 00-151, not patented.

Propagation:

*Type.*—Terminal cuttings.

*Time to initiate roots.*—About six to eight days at temperatures of about 20° C. to 25° C.

*Time to produce a rooted young plant.*—About three to four weeks at temperatures of about 20° C. to 25° C.

*Root description.*—Fine, fibrous.

*Rooting habit.*—Freely branching.

Plant description:

*Appearance.*—Herbaceous anemone type potted *Argyranthemum*. Compact, uniform and mounded plant habit. Strong and freely branching growth habit with about 26 lateral branches developing per plant; dense and full plants. Vigorous growth habit.

*Plant height.*—About 19.6 cm.

*Plant width.*—About 24.8 cm.

*Lateral branches.*—Length: About 15 cm. Diameter: About 2.2 mm. Internode length: About 8 mm. Strength: Strong; young stems, flexible. Texture: Smooth, glabrous. Color: 139D.

Foliage description:

*Arrangement.*—Alternate, simple.

*Length.*—About 4 cm.

*Width.*—About 1.6 cm.

*Apex.*—Acute.

*Base.*—Attenuate.

*Margin.*—Pinnatifid.

*Texture, upper and lower surfaces.*—Smooth, glabrous.

*Venation.*—Pinnate, reticulate.

*Color.*—Developing and fully expanded foliage, upper surface: 143A; venation, 144D. Developing and fully expanded foliage, lower surface: 138A; venation, 144D.

*Petiole.*—Length: About 1.2 cm. Diameter: About 1 mm. Texture, upper and lower surface: Sparsely pubescent. Color, upper and lower surfaces: 143A.

Inflorescence description:

*Appearance.*—Anemone type inflorescence form with elongated oblong-shaped ray florets. Inflorescences borne on terminals above foliage. Disc and ray florets arranged acropetally on a capitulum. Inflorescences slightly fragrant.

*Flowering season.*—Plants flower from spring to early fall in Japan; flowering continuous during this period.

*Inflorescence longevity.*—Inflorescences last about seven to ten days on the plant; inflorescences persistent.

*Quantity of inflorescences.*—Freely flowering, about two open inflorescences per lateral branch at one time.

*Inflorescence bud.*—Height: About 4.5 mm. Diameter: About 5.4 mm. Shape: Ovoid. Color: 162D.

*Inflorescence size.*—Diameter: About 4.3 cm. Depth (height): About 1.1 cm. Diameter of disc: About 2.5 cm.

*Ray florets.*—Shape: Elongated oblong. Length: About 1.9 cm. Width: About 6 mm. Apex: Emarginate, praemorse. Base: Attenuate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Number of ray florets per inflorescence: About 22 arranged in two whorls. Color: When opening, upper surface: N74B. When opening, lower surface: N74C. Fully opened, upper surface: 77C. Fully opened, lower surface: 75C.

*Disc florets.*—Arrangement: Massed at center of receptacle. Shape: Tubular, elongated. Apex: Five-pointed. Length: About 9 mm. Diameter: About 1 mm to 3 mm. Number of disc florets per inflorescence: About 170. Color, immature: 46B. Color, mature: Apex: 59A to N78A. Mid-section: 76C. Base: 158C.

*Phyllaries.*—Number of phyllaries per inflorescence: About 25. Length: About 3 mm. Width: About 2 mm. Shape: Elliptic. Apex: Acute. Base: Truncate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; margins, papery. Color, upper and lower surfaces: 144A to 144D.

*Peduncles.*—Length: About 5.7 cm. Diameter: About 1 mm. Angle: Upright to outwardly arching with weight of the inflorescences. Strength: Moderately

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strong, flexible. Texture: Smooth, glabrous. Color: 144A overlain with 184A.

*Reproductive organs.*—Androecium: Present on disc florets only. Anther length: About 1 mm. Anther shape: Ellipsoidal. Anther color: 17C. Pollen amount: Scarce. Gynoecium: Present on both ray and disc florets. Pistil length: About 4 mm. Stigma shape: Transversely ellipsoidal. Stigma color: 17C. Ovary color: 144D.

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

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

Garden performance: Plants of the *Argyranthemum* have been observed to have good garden performance and to tolerate wind, rain and temperatures from about 0° C. to about 40° C.

It is claimed:

1. A new and distinct *Argyranthemum* plant named 'Ohm-adsaca' as illustrated and described.

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