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**Kanno**

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(54) **OSTEOSPERMUM PLANT NAMED**  
**‘KAKEGAWA AU4’**

(75) **Inventor:** **Masao Kanno**, Chigasaki (JP)

(73) **Assignee:** **Sakata Seed Corporation**, Yokohama (JP)

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*Primary Examiner*—Bruce R. Campell

*Assistant Examiner*—A. Para

(74) *Attorney, Agent, or Firm*—Rothwell, Figg, Ernst & Manbeck

(57) **ABSTRACT**

The present invention relates to a new and distinct variety of *Osteospermum fruticosum* (L.) Norl. plant named ‘Kakegawa AU4’. This new plant has a suitable form for pot culture and also possesses large yellow flowers that stay open into the evening hours or under low light conditions.

**1 Drawing Sheet**

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**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct variety of the Compositae family. The new variety, a member of the species *Osteospermum fruticosum* (L.) Norl., named ‘Kakegawa AU4’. This species is one of several species of Osteospermum that are commonly referred to as Cape Daisy.

The new variety originated as a first generation hybrid seedling following four generations of random intercrossing between population selections. All crosses were done at the Sakata Seed Corporation, Chogo Research Station in Chogo Prefecture, Japan. The objective of this breeding program was to develop plants with suitable form for pot culture that also possessed large flowers that would stay open into the evening hours. The flowers of *Osteospermum fruticosum* (L.) Norl. usually close under low light conditions, such as in the evening.

In 1989, the *Osteospermum fruticosum* (L.) Norl. breeding population was initiated that produced the female parent of the initial cross of this variety. Five generations of plant selection and intercrossing occurred until breeding line 573 was selected in 1994. Plant selection was made for the yellow petal color and flowers that remained open in the afternoon or evening.

In 1991, the *Osteospermum fruticosum* (L.) Norl. breeding population was started that produced the male parent of the initial cross of this variety. Three generations of plant selection and intercrossing occurred until breeding line 601 was selected in 1994. Plant selection was made for yellow petal color and flowers that remained open in the afternoon or evening.

In 1994, line 573 was crossed with line 601. The F<sub>1</sub> seed was sown that Fall and in Spring of 1995, line S16 was selected. Line S16 was selected because of its unique white petals with yellow tips and the characteristic of keeping its flowers open late into the afternoon. Line S16 was asexually reproduced by vegetative propagation in Salinas, Calif. during the late summer, 1995 and further evaluated before being renamed ‘Kakegawa AU4’ in 1996. Further evaluation by the inventor during 1997 and 1998 demonstrated that the new variety’s characteristics were firmly fixed and stable. Since this time the new variety has been trialed and vegetatively propagated at the Sakata Seed Corporation facility

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in Salinas, Calif. The new variety has been stable and fixed in this environment also.

The new variety has been observed under greenhouse and outdoor conditions in California and Japan. The phenotype of the new plant may vary somewhat with variations in temperature, day length, light intensity or soil media conditions. The observations noted below have been made using multiple 8 month old plants grown in Salinas, Calif. under the following conditions. Shoot tips were rooted in soil plug trays in August. After developing a root ball the plants were transplanted into six-inch diameter pots and grown outdoors through the winter to provide vernalization for flowering. In December, buds were pinched off to promote branching. Winter night temperatures averaged 40 to 50 degrees Fahrenheit. By May of the following year the plants were in full bloom. Average summer daytime temperatures in Salinas range from 60 to 75 degrees Fahrenheit depending on the month and the amount of coastal marine layer cloud cover.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying color photographs illustrate the appearance the new variety, ‘Kakegawa AU4’. The colors are represented as true as possible using conventional photographic procedures.

FIG. 1 is a close-up view of the plant showing the color of the petals.

FIG. 2 is a view of the entire plant showing its form in pot culture when in full bloom.

**DETAILED DESCRIPTION OF THE NEW VARIETY**

The following traits and characteristics describe the new variety. Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.), published by The Royal Horticultural Society of London, England, except where general terms of ordinary significance are used.

Classification:  
Family.—Compositae (Asteraceae).  
Genus and species.—*Osteospermum fruticosum* (L.) Norl.  
Common names.—African Daisy, Cape Daisy, Freeway Daisy.  
Cultivar name.—‘Kakegawa AU4’.

Parentage:  
Female parent.—Line 573 (not patented).  
Male parent.—Line 601 (not patented).

Growth:  
Habit.—Vigorous, well branched.  
Life cycle.—Perennial.

Plant description:  
Height.—39 cm to 43 cm.  
Width.—40 cm to 50 cm.  
Form.—Upright, conical-like.  
Lastingness of florescence.—7 days.

Stems:  
Stem color.—RHS 144A (yellow-green).  
Stem description.—Strong, erect, herbaceous, glabrous.  
Stem diameter.—3 mm to 4 mm.  
Internode length.—8 mm to 10 mm.

Leaves:  
Leaf arrangement.—Alternate; sessile.  
Leaf apex.—Mucronate.  
Leaf base.—Oblique.  
Leaf color.—Upper RHS 137A (green); lower RHS 137D (green).  
Leaf edge.—Slightly serrated.  
Leaf shape.—Lanceolate.  
Leaf venation.—Pinnate.

Flowers:  
Phyllaries.—Arrangement symmetrical; length 10 mm; width 2 mm; shape linear; apex acute; margin entire; texture pubescent; upper color RHS 137D (green); lower color RHS 138C (green).  
Corolla.—Free.  
Flower diameter.—5.5 cm to 6.0 cm.  
Flowering habit.—Determinate.  
Fragrance.—None.  
Inflorescence type.—Solitary on terminal peduncles.  
Ovary.—Inferior.  
Peduncle.—Texture pubescent; length 4–6 cm; diameter 0.2 cm; color RHS 143C (green).  
Bud.—Shape round, pointed at the top; length 1 cm; width 1 cm; color RHS 143C (green).  
Ray floret shape.—Spatulate; apex acute; margin entire.

Ray floret color.—Dorsal surface of ray florets are RHS 8C (yellow); ventral surface of ray florets is RHS 7B (yellow) with RHS 177C brown streaks; disk florets are RHS 13B (yellow).  
Ray floret size.—3.0 cm in length; 0.8 cm in width.  
Ray floret number.—17–18.  
Disc floret shape.—Tubular.  
Disc floret size.—5.0×0.5 mm.  
Disc floret number.—55 per head.  
Propagation to bloom.—18 to 20 weeks when rooted vegetative cuttings are transferred to a six-inch diameter pot in late Fall and given several weeks of below 50 degree Fahrenheit temperature prior to increasingly warmer spring weather.

Reproductive organ:  
Stigma.—RHS 2D (yellow).  
Style.—RHS 2D (yellow).  
Anther.—RHS 22 (yellow-orange).  
Filament.—RHS 22 (yellow-orange).  
Pollen color.—RHS 23B (yellow-orange).  
Fruit and seed.—Not produced.

DISEASE AND INSECT RESISTANCE

No known susceptibility to diseases or insects have been observed to date.

COMPARISON WITH OTHER KNOW VARIETIES

The closest known variety to ‘Kakegawa AU4’ is the variety ‘Brightside’, a plant described and illustrated in U.S. Plant Pat. No. 10,596. The following table compares the differences that distinguish the new variety from the similar variety ‘Brightside’.

Characteristic	‘Kakegawa AU4’	‘Brightside’
Disk florets	RHS 13B (yellow)	RHS 90C (violet-blue)
Growth form	Upright, conical-like	Upright, broad
Leaf width (cm)	0.8	1.1
Ray floret color (dorsal)	RHS 8C (yellow)	Pure white
Ray floret color (ventral)	RHS 7B (yellow) with RHS 177C brown streaks	RHS 90B (violet-blue)

I claim:

1. A new and distinct plant of the Compositae family, *Osteospermum fruticosum* (L.) Norl., herein referred to by the name ‘Kakegawa AU4’, as illustrated and described.

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FIG. 1



FIG. 2