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Kawashima et al.

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(54) **OSTEOSPERMUM PLANT NAMED**
'KAKEGAWA AU19'

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

(50) Latin Name: *Osteospermum hybrida*
Varietal Denomination: **Kakegawa AU19**

(52) **U.S. Cl.** **Plt./360**

(58) **Field of Classification Search** **Plt./360**
See application file for complete search history.

(75) Inventors: **Moriya Kawashima**, Matsumoto (JP);
Akinobu Ui, Kakegawa (JP)

Primary Examiner—Annette H Para

(74) *Attorney, Agent, or Firm*—Jondle & Associates, P.C.

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

(57) **ABSTRACT**

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patent is extended or adjusted under 35
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An *Osteospermum* cultivar particularly distinguished by its
deep purple flower color, resistance to fading, basal branch-
ing and compact habit, and ability to flower in hot tempera-
tures is disclosed.

(21) Appl. No.: **11/703,587**

1 Drawing Sheet

(22) Filed: **Feb. 7, 2007**

1

2

Genus and species: *Osteospermum hybrida*.
Variety denomination: 'Kakegawa AU19'.

DESCRIPTION OF PHOTOGRAPHS

BACKGROUND OF THE NEW PLANT

This new *Osteospermum* plant is illustrated by the accom-
panying photographs which show the plant's form, foliage
and flowers. The colors shown are as true as can be reason-
ably obtained by conventional photographic procedures.

'Kakegawa AU19' originated from a hybridization of pro-
prietary hybrid *Osteospermum* breeding line '2K-MY-6'
(unpatented) and proprietary hybrid *Osteospermum* line
'9PR-2' (unpatented) in Kakegawa, Japan. The male parent,
'9PR-2', has a deep purple flower color and a plant growth
habit with less branching. The female parent, '2K-MY-6',
has a purple flower color and strong blooming ability.

FIG. 1 shows overall plant habit.

FIG. 2 shows the mature inflorescence.

In 2001, the two *Osteospermum* lines were crossed and 18
seeds were obtained. The seeds were sown and out of the 18
seeds, 13 plants were grown in pots for evaluation. Out of 13
F₁ lines, line 'K3-8' was selected which has a deep purple
flower color with resistance to fading and a basal branching
and compact plant growth habit.

DESCRIPTION OF THE NEW CULTIVAR

The following detailed descriptions set forth the distinc-
tive characteristics of 'Kakegawa AU19'. The data which
define these characteristics were collected from asexual
reproductions carried out in Salinas, Calif. Data was col-
lected on plants grown approximately five months from
transplanting rooted cuttings into 6-inch pots under green-
house conditions in Salinas, Calif. Color references are to
the R.H.S. Colour Chart of The Royal Horticultural Society
of London (R.H.S.).

In fall 2002, line 'K3-8' was vegetatively propagated with
cuttings and re-evaluated in an open field and a greenhouse.
It was discovered that the plant line maintained its blooming
power under high temperature conditions making it a heat
tolerant plant variety. In spring 2004, plants were evaluated
again in pots and in an open field. The selection subse-
quently was named 'Kakegawa AU19' and found to retain its
distinctive characteristics through successive asexual propa-
gations in Kakegawa, Japan and Salinas, Calif.

DESCRIPTION OF THE NEW PLANT

Plant Breeder's Rights for this cultivar were applied for in
Canada on Mar. 31, 2006.

Classification:

Family.—Compositae.

Botanical.—*Osteospermum hybrida*.

Parentage:

Female parent.—Hybrid proprietary *Osteospermum*
line '2K-MY-06' (unpatented).

Male parent.—Hybrid proprietary *Osteospermum* line
'9PR-2' (unpatented).

SUMMARY OF THE INVENTION

Growth:

The following are the most outstanding and distinguishing
characteristics of this new cultivar when grown under nor-
mal horticultural practices in Kakegawa, Japan.

Time to produce a rooted cutting.—Cuttings will colo-
nize a 2.5 cm diameter by 2.5 cm tall greenhouse tray
cell with peat-based plant media in approximately
four weeks. Cuttings are dipped in a normal dilution
(1:9) on DIP 'N GROW root-inducing solution in
water. The trays are misted hourly during rooting.

1. Deep purple flower color;
2. Resistance to fading;
3. Basal branching and compact growth habit; and
4. Ability to flower in hot temperatures.

Environmental conditions for plant growth.—Rooted
cuttings are transplanted to pots with a 16 cm
diameter, one plant per pot. Peat-based growing
media is used. The pots are watered using a 150–200

ppm fertilizer solution containing 18% nitrogen, 8% phosphorus and 18% potassium. The soil is allowed to dry between waterings. During the first few weeks after transplanting, the plants should have evening temperatures around 15–18° C. for good root growth. When plants reach 7.5–10 cm in height they are pinched back to 5–6 leaves to promote branching. Spring and summer daytime high temperatures in Salinas, Calif., where the data was collected, range from 16–25° C.

Time to bloom from propagation.—Approximately four weeks when rooted vegetative cuttings are transferred to a 16 cm. diameter pot. Flowering season is all year in the United States. Vernalization is not required to induce flowering.

Plant description:

Habit.—Upright and branching.

Life cycle.—Perennial.

Form.—Branching, dense.

Height.—30 cm to 40 cm.

Width.—50 cm to 60 cm.

Stems:

Internode length.—1.5 cm to 2.0 cm.

Stem description.—Strong, erect.

Stem diameter.—0.3 to 0.4 cm.

Stem color.—RHS 145B (Yellow-green).

Pubescence.—Sparse.

Pubescence shape.—Linear.

Pubescence color.—RHS N155A (White).

Leaves:

Arrangement.—Alternate.

Shape.—Oblanceolate.

Apex.—Acute.

Base.—Decurrent.

Margin.—Serrate.

Venation.—Pinnate.

Surface.—Dull, smooth.

Surface pubescence.—Present.

Length.—5.5 cm to 7.5 cm.

Width.—2.5 cm to 3.7 cm.

Thickness.—0.1 cm.

Color.—Upper surface: RHS 139A (Green). Lower surface: RHS 137B (Green).

Venation color.—Upper surface: RHS 138B (Green). Lower surface: RHS 138B (Green).

Inflorescence:

Type.—Capitulum (head); Disc florets are perfect and ray florets are carpellate.

Flowering habit.—Determinate.

Lastingness of flowers.—3 to 4 days.

Fragrance.—None.

Seed production.—None observed.

Diameter.—6.0 cm to 6.5 cm.

Depth.—1.5 cm to 2.0 cm.

Petal number.—16 to 19 per inflorescence.

Disc diameter.—1.0 cm to 1.2 cm.

Disc floret number.—65 to 75 per head.

Peduncle length.—9.0 cm to 12.5 cm.

Peduncle diameter.—0.2 cm.

Peduncle color.—RHS 138B (Green).

Peduncle texture.—Dull, slight pubescence.

Phyllaries.—Arrangement: 14 per inflorescence, free, arranged symmetrically. Length: 0.9 cm to 1.0 cm. Width: 0.1 cm to 0.15 cm. Apex: Acute. Margin: Entire. Shape: Linear, acute. Color: Upper surface:

RHS 138A (Green). Lower surface: RHS 138B (Green).

Ray florets (Ligules):

Corolla.—One petal per ray floret; only the outer row of florets are the ray florets.

Number of ray florets per inflorescence.—19.

Petal length.—3.0 cm to 3.4 cm.

Petal width.—0.3 cm to 0.45 cm.

Petal shape.—Spatulate.

Petal apex.—Obtuse with a notched tip.

Petal margin.—Entire.

Petal color.—Upper surface: RHS 61C (Red-purple) with RHS N79B (Purple) streaks. Lower surface: RHS 84B (Violet) with RHS 79A (Purple) streaks.

Petal pubescence.—Glabrous.

Ovary.—Superior.

Pistil form.—One style with two stigma branches.

Pistil length.—0.3 cm.

Stigma color.—RHS N92A (Violet-purple to almost black).

Style color.—RHS N92A (Violet-purple to almost black).

Disc florets:

Color.—RHS N89A (Violet-blue).

Shape.—Tubular.

Apex.—Tubular.

Surface.—Smooth, shiny.

Size.—Length: 0.4 cm. Width: 0.1 cm.

Pistil form.—One style with two stigma branches.

Ovary.—Superior.

Style color.—RHS 82A (Purple-violet).

Stigma color.—RHS N92A (Violet-purple to almost black).

Stamens.—5, fused into a single tube.

Anther color.—RHS N92A (Violet-purple to almost black).

Pollen color.—RHS 23A (Yellow-orange).

Disease and insect resistance: Very disease resistant, however, plants are susceptible to aphids, thrips, white-flies and worms.

COMPARISON WITH PARENTAL LINES AND KNOWN CULTIVARS

‘Kakegawa AU19’ is a distinct variety of *Osteospermum* owing to its deep purple flower color, resistance to fading, basal branching and compact growth habit and its ability to flower in hot temperatures. ‘Kakegawa AU19’ is distinguished from its parents primarily by ray floret color and plant growth habit as described in Table 1 below (color references are to The Royal Horticultural Society Colour Chart, 4th edition):

Characteristic	‘Kakegawa AU19’	Male Parent ‘9PR-2’	Female Parent ‘2K-MY-6’
Ray floret (ligule) color, upper surface:	Deep Purple	Purple	Deep purple
Habit	Compact, basal branching	Compact	Less branching

‘Kakegawa AU19’ is most similar to the *Osteospermum* plant named ‘Kakegawa AU3’ (U.S. Plant Pat. No. 12,778); however, there are differences as described in Table 2 below (color references are to The Royal Horticultural Society Colour Chart, 4th edition):

TABLE 2

Characteristic	'Kakegawa AU19'	'Kakegawa AU3'
Ray floret (ligule) color, upper surface:	RHS 61C (Red-purple) with RHS N79B (Purple) streaks	RHS 71A (Red-purple)
Habit	Compact	Vigorous, well branched

I claim:

1. A new and distinct cultivar of *Osteospermum* plant as shown and described herein.

* * * * *



Fig. 1



Fig. 2