

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

(10) **Patent No.:** **US PP21,544 P2**
(45) **Date of Patent:** **Nov. 30, 2010**

(54) **ECHEVERIA PLANT NAMED ‘JOEY1’**

(50) Latin Name: *Echeveria* hybrid
Varietal Denomination: **Joey1**

(76) Inventor: **John Oates**, PO Box 3037, Tuross Head
NSW (AU) 2537

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 25 days.

(21) Appl. No.: **12/384,131**

(22) Filed: **Mar. 31, 2009**

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

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

(58) **Field of Classification Search** Plt./263.1,
Plt./373

See application file for complete search history.

Primary Examiner—Kent L Bell

(57) **ABSTRACT**

A new and distinct *Echeveria* cultivar named ‘Joey1’ is dis-
closed, characterized a multiple, self-initiating branching
habit, strong, uniform leaf color over a wide temperature
range and under low water stress. Additionally, the new vari-
ety produces a high number of flower stems, with the peak
amount in spring. The new variety is an *Echeveria*, typically
produced as a garden or container plant.

1 Drawing Sheet

1

Latin name of the genus and species: *Echeveria* hybrid.
Variety denomination: ‘Joey1’.

BACKGROUND OF THE INVENTION

The new cultivar is a product of a planned breeding pro-
gram. The new variety originated from a cross pollination of
the seed parent, an unpatented proprietary selection of *Echev-*
eria setosa referred to as ‘180’ with the pollen parent, an
unpatented proprietary selection of *Echeveria secunda*
referred to as ‘182’ directed by the inventor in April of 2003.
The crossing was made in Yowrie, New South Wales, Austra-
lia, at a commercial greenhouse.

‘Joey1’ was discovered by the inventor, John Oates, in June
2004 in Glenfield, New South Wales, Australia, at a commer-
cial greenhouse among seedlings resulting from the 2003
crossing.

Asexual reproduction of the new cultivar ‘Joey1’ was first
performed in Glenfield, New South Wales, Australia, at a
commercial greenhouse by leaf cuttings in September 2004.
‘Joey1’ has since produced several generations and has shown
that the unique features of this cultivar are stable and repro-
duced true to type.

SUMMARY OF THE INVENTION

The cultivar ‘Joey1’ has not been observed under all pos-
sible environmental conditions. The phenotype may vary
somewhat with variations in environment such as tempera-
ture, day length, 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 ‘Joey1’. These
characteristics in combination distinguish ‘Joey1’ as a new
and distinct *Echeveria* cultivar:

1. Freely producing side shoots.
2. Maintains strong leaf color over wide temperature range
and under low water stress.
3. High number of flower stems, maximizing in spring.

2

PARENTAL COMPARISON

Plants of the new cultivar ‘Joey1’ are similar to the female
parent ‘180’ in most horticultural characteristics. However,
‘Joey1’ differs in producing more offshoots, a more stable
leaf color, more flowering stems and a glabrous instead of
ciliate leaf margin.

Plants of the new cultivar ‘Joey1’ are similar to the male
parent ‘182’ in most horticultural characteristics. However,
‘Joey1’ differs in producing many more offshoots, a green-
yellow leaf color, compared to green-blue of the pollen par-
ent, and more flowering stems than the pollen parent.

COMMERCIAL COMPARISON

‘Joey1’ can be compared to the unpatented commercial
variety *Echeveria* ‘Green Ripple’. Plants of ‘Green Ripple’
are similar to plants of ‘Joey1’ in most horticultural charac-
teristics, however, ‘Joey1’ produces more sideshoots, and
more flowering stems. Additionally, ‘Joey1’ maintains the
same foliage color under a variety of environmental condi-
tions, whereas ‘Emerald Ripple’ has a foliage color that vari-
eties under different environmental conditions.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph in FIG. 1 illustrates in full
color a typical plant of ‘Joey1’ grown outdoors in Bonsall,
Calif. This plant is approximately 1 year old, shown in a 4
inch pot. The photograph was taken using conventional tech-
niques and although colors may appear different from actual
colors due to light reflectance it is as accurate as possible by
conventional photographic techniques.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to
The Royal Horticultural Society Colour Chart except where
general terms of ordinary dictionary significance are used.
The following observations and measurements describe
‘Joey1’ plants grown outdoors in Bonsall, Calif. Tempera-
tures ranged from 2° C. to 28° C. night and day. No artificial

light, photoperiodic treatments or chemical treatments were given to the plants. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Echeveria* hybrid. cultivar 'Joey1'.

Age of the plant described: Approximately 1 year.

Container size of the plant described: 4 inch.

PROPAGATION

Time to initiate roots: About 12 to 20 days at approximately 20° C.

Time to produce a rooted young plant: Approximately 50 days.

Propagation method: Leaf cuttings.

Root description: Fibrous.

PLANT

Growth habit: Rosulate plant, sessile, non-branching, freely produces side off-shoots.

Height: Measured from soil level at top of pot, approximately 6 cm to top of highest leaf. Approximately 25 cm to top of highest inflorescence.

Plant spread: Approximately 14 cm.

Growth rate: Moderate.

Number of leaves per stem: Approximately 26.

Stem length: Approximately 7.5 cm.

Stem width: Approximately 4.5 cm.

Stem color: Near RHS Yellow-Green 144D.

Stem texture: Smooth.

Age of plant described: Approximately 1 year.

FOLIAGE

Leaf:

Shape of blade.—Oblanceolate.

Apex.—Broadly acute.

Base.—Oblique.

Margin.—Entire.

Texture of top surface.—Glabrous.

Texture of bottom surface.—Glabrous.

Quantity of leaves per plant.—Approximately 55.

Color.—Young foliage upper side: Near RHS Green 138A. Acute tip Red-Purple 59C. Young foliage under side: Near RHS Green 139C. Mature foliage upper side: Near RHS Yellow-Green 146B. Acute tip and very thin margin colored Greyed-Purple 185A. Mature foliage under side: Near RHS Yellow-Green 146B. Acute tip and very thin margin colored Greyed-Purple 185A.

Venation:

Type.—Parallel.

Venation color.—Indistinguishable.

Petiole: Not present, sessile.

FLOWER

Natural flowering season: Spring.

Inflorescence type and habit: Elongated peduncles arise from lateral portions of rosette. Terminates in 2 or 3 corymbs. Generally 1 to 3 significantly larger flowers per corymb.

Rate of flower opening: More than 2 weeks to fully opened individual flower.

Flower longevity on plant: Several weeks.

Quantity of flowers: 3 to 5 viable flowers that will fully open per corymb. 3 to 7 non-opening buds per corymb.

Total inflorescence size:

Height.—Approximately 3.6 cm.

Width.—Approximately 5.2 cm.

Quantity of inflorescences: 2 fully mature peduncles with 2 to 3 corymbs and 2 immature peduncles with corymbs developing at one time.

Individual flowers corolla:

Arrangement.—Cylindrical shaped corolla, actinomorphic, flaring open at end. 5 separate petals, barely fused at base.

Petal description.—Quantity: 5. Length: Approximately 1.3 cm. Width: Approximately 0.4 cm at widest point. Margin: Entire. Shape: Narrow deltoid. Apex: Acute to acuminate. Base: Oblique. Texture: Matte. Color: Immature: Near RHS Orange-Red 32A with streaks 32C and base 32D. Fully Opened Interior: Near RHS Yellow-Orange 17C with streaks near Orange 25A. Fully Opened Exterior: Near RHS Orange-Red N30A, margin Near RHS 24B. Fading: Color change during fading not observed.

Calyx:

Arrangement.—Actinomorphic, polysepalous.

Sepal description.—Quantity: 5. Length: Approximately 0.9 cm. Width: Approximately 0.4 cm at widest point. Margin: Entire. Shape: Deltoid. Apex: Acute. Texture: Matte. Other Characteristics: Fleshy. Color: Outer surface: Near RHS Green 138A. Inner surface: Near RHS Green 138B.

Bud:

Shape.—Acorn shape.

Length.—Approximately 1.1 cm.

Diameter.—Approximately 0.6 cm.

Color.—Near RHS Orange-Red 33B, base Near RHS Yellow 4D.

Pedicels:

Length.—Approximately 0.3 cm.

Width.—Approximately 0.2 cm.

Aspect.—Straight, angled 10' to 30' degrees from point of attachment Color: Near RHS Yellow-Green 145B.

Peduncle:

Length.—Approximately 21 cm.

Width.—Approximately 0.6 cm.

Aspect.—Straight to very slightly undulating. Nearly 90° from rosette.

Strength.—Very strong.

Color.—Near RHS Yellow-Green 145B background color. Strong flush of Red 47C.

Fragrance: None.

REPRODUCTIVE ORGANS

Stamens:

Number.—Average 12.

Filament length.—Approximately 0.4 cm.

Filament color.—Near RHS Yellow 9A.

Anther length.—Approximately 0.1 cm.

Anther color.—Near RHS Yellow 13A.

Anther shape.—Spatulate.

Pollen.—Scant.

Pollen color.—Near RHS Yellow 13A.

Pistil:

Number: 5.

Length (including style).—Approximately 0.8 cm.

Style length.—Approximately 0.4 cm.

Style color.—Near RHS Yellow-Green 150D.

Stigma.—Shape: Linear. Color: Near RHS Greyed-Orange 170A. Ovary color: Near RHS Green-Yellow 1D.

OTHER CHARACTERISTICS

Seeds and fruits: Not observed.
Disease/pest resistance: Neither tolerance nor resistance to normal diseases and pests of *Echeveria* have been observed.

Temperature tolerance: Tolerates temperatures from approximately 2° C. to at least 40° C.
Drought tolerance: Plant can survive for at least 2 weeks without supplemental water without a change in foliage color, or detrimental effects to the plant.

What is claimed is:
1. A new and distinct cultivar of *Echeveria* plant named ‘Joey1’ as herein illustrated and described.

* * * * *

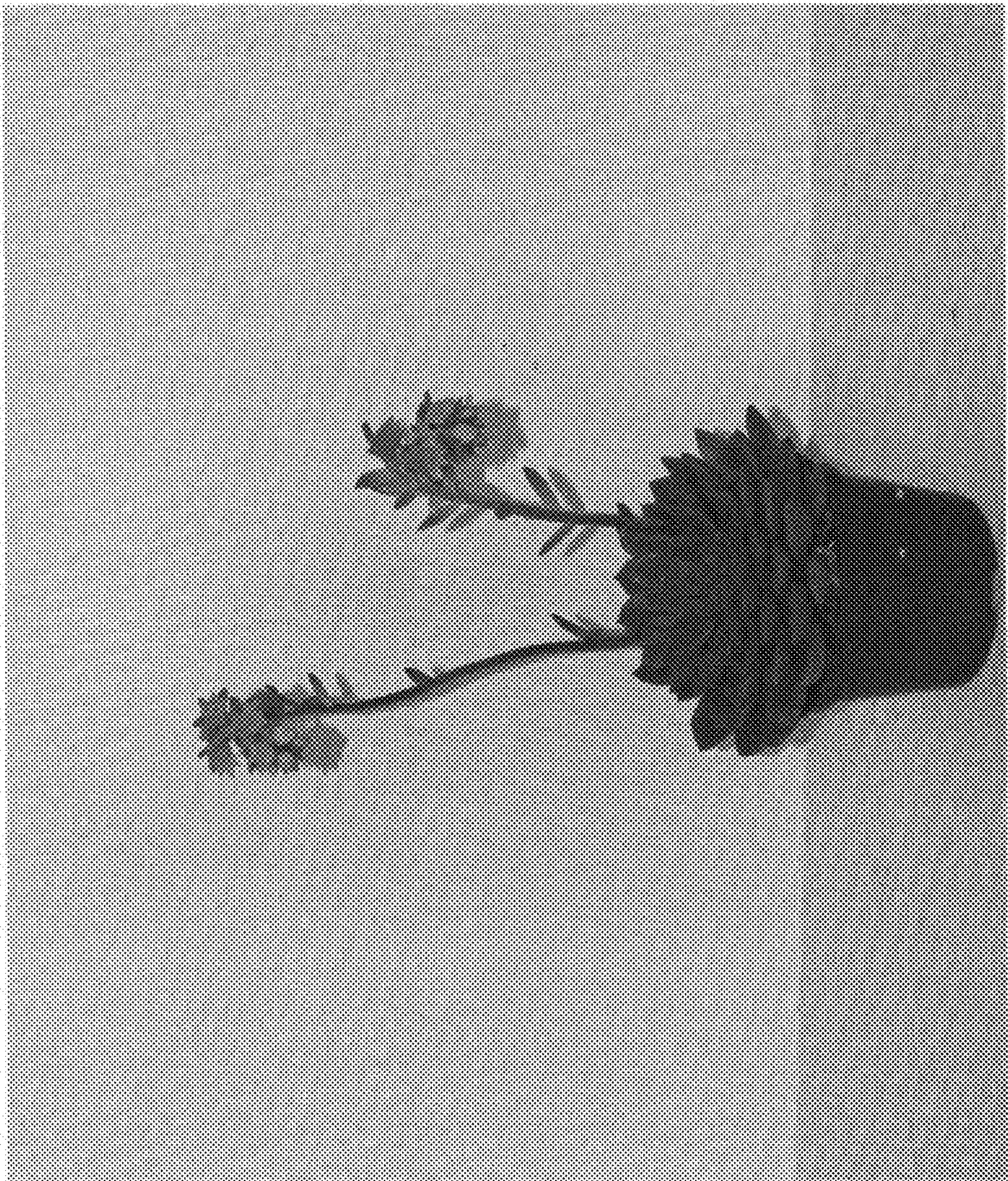


Fig. 1