



US00PP21544P2

(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 disclosed, characterized a multiple, self-initiating branching habit, strong, uniform leaf color over a wide temperature range and under low water stress. Additionally, the new variety 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 program. The new variety originated from a cross pollination of the seed parent, an unpatented proprietary selection of *Echeveria 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 Yowie, New South Wales, Australia, at a commercial greenhouse.

'Joey1' was discovered by the inventor, John Oates, in June 15  
2004 in Glenfield, New South Wales, Australia, at a commercial greenhouse among seedlings resulting from the 2003 crossing.

Asexual reproduction of the new cultivar 'Joey1' was first 20  
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 reproduced true to type.

**SUMMARY OF THE INVENTION**

The cultivar 'Joey1' has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, 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 40  
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, 5  
'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, 10  
'Joey1' differs in producing many more offshoots, a green-yellow leaf color, compared to green-blue of the pollen parent, and more flowering stems than the pollen parent.

**COMMERCIAL COMPARISON**

'Joey1' can be compared to the unpatented commercial 15  
variety *Echeveria* 'Green Ripple'. Plants of 'Green Ripple' are similar to plants of 'Joey1' in most horticultural characteristics, however, 'Joey1' produces more sideshoots, and 20  
more flowering stems. Additionally, 'Joey1' maintains the same foliage color under a variety of environmental conditions, whereas 'Emerald Ripple' has a foliage color that varies 25  
under different environmental conditions.

**BRIEF DESCRIPTION OF THE PHOTOGRAPH**

The accompanying photograph in FIG. 1 illustrates in full 30  
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 techniques and although colors may appear different from actual colors due to light reflectance it is as accurate as possible by 35  
conventional photographic techniques.

**DETAILED BOTANICAL DESCRIPTION**

In the following description, color references are made to 35  
The Royal Horticultural Society Colour Chart except where general terms of ordinary dictionary significance are used. The following observations and measurements describe 40  
'Joey1' plants grown outdoors in Bonsall, Calif. Temperatures 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 10 20° C.

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

Propagation method: Leaf cuttings.

Root description: Fibrous.

Total inflorescence size:

*Height*.—Approximately 3.6 cm.

*Width*.—Approximately 5.2 cm.

Quantity of inflorescences: 2 fully mature peduncles with 2 to 5 3 corymbbs and 2 immature peduncles with corymbbs 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.

#### 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.

50

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 corymbbs.

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 65 per corymb. 3 to 7 non-opening buds per corymb.

55

60

US PP21,544 P2

5

6

*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.

5

10

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.

\* \* \* \* \*

