



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

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(54) **XEROCHRYSUM PLANT NAMED**  
**'BONDREREDEM'**

(50) Latin Name: *Xerochrysum bracteatum*  
Varietal Denomination: **Bondreredem**

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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Xerochrysum* plant named  
'Bondreredem', characterized by its double-type, burnt-or-  
ange and yellow bicolored inflorescences, dark green-colored  
foliage, and moderately vigorous, compact-mounded growth  
habit, is disclosed.

**1 Drawing Sheet**

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Latin name of genus and species of plant claimed: *Xero-  
chrysum bracteatum*.

Variety denomination: 'Bondreredem'.

#### BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar  
of *Xerochrysum* plant botanically known as *Xerochrysum*  
*bracteatum* and hereinafter referred to by the cultivar name  
'Bondreredem'.

The new cultivar originated in a controlled breeding pro-  
gram in Yellow Rock, New South Wales, Australia during  
January 2007. The objective of the breeding program was the  
development of *Xerochrysum* cultivars with large inflores-  
cences having attractive colors, and moderately vigorous,  
compact-mounded growth habit.

The new *Xerochrysum* cultivar is the result of cross-poll-  
ination. The female (seed) parent of the new cultivar is  
DREAMTIME Jumbo Light Pink 'Bondrelaipei', copending  
U.S. Plant patent application Ser. No. 12/924,191, character-  
ized by its double-type, pink and white bicolored inflores-  
cences, dark green-colored foliage, and moderately vigorous,  
compact-mounded growth habit. The male (pollen) parent of  
the new cultivar is the proprietary *Xerochrysum bracteatum*  
breeding selection designated 06-30, not patented, character-  
ized by its double-type, red and yellow bicolored inflores-  
cences, dark green-colored foliage, and moderately vigorous,  
upright-mounded growth habit. The new cultivar was discov-  
ered and selected as a single flowering plant within the prog-  
eny of the above stated cross-pollination during October 2007  
in a controlled environment at Yellow Rock, New South  
Wales, Australia.

Asexual reproduction of the new cultivar by terminal stem  
cuttings since October 2007 at Yellow Rock, New South  
Wales, Australia, Arroyo Grande, Calif., and West Chicago,  
Ill. has demonstrated that the new cultivar reproduces true to  
type with all of the characteristics, as herein described, firmly  
fixed and retained through successive generations of such  
asexual propagation.

#### SUMMARY OF THE INVENTION

The following characteristics of the new cultivar have been  
repeatedly observed and can be used to distinguish 'Bon-  
dreredem' as a new and distinct cultivar of *Xerochrysum*  
plant:

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1. Double-type, burnt-orange and yellow bicolored inflo-  
rescences;

2. Dark green-colored foliage; and

3. Moderately vigorous, compact-mounded growth habit.

Plants of the new cultivar differ from plants of the female  
parent primarily in inflorescence color and from plants of the  
male parent primarily in inflorescence color and growth habit.  
The new cultivar is more compact than the male parent.

Of the many commercially available *Xerochrysum* culti-  
vars, the most similar in comparison to the new cultivar is  
Mohave Fire 'KLEBB08398', U.S. Plant Pat. No. 21,119.  
However, in side by side comparisons, plants of the new  
cultivar differ from plants of 'KLEBB08398' in at least the  
following characteristics:

1. Plants of the new cultivar have an involucre bract color  
different from plants of 'KLEBB08398'. In particular,  
the base of the upper surface of the bracts is a brighter  
yellow color than that of 'KLEBB08398'.

2. Plants of the new cultivar have larger inflorescences than  
plants of 'KLEBB08398'. In a side by comparison,  
plants of the new cultivar had an average inflorescence  
diameter of 5.0 cm and inflorescence depth of 1.8 cm,  
while plants of 'KLEBB08398' had an average inflores-  
cence diameter of 3.5 cm and inflorescence depth of 1.6  
cm.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs show, as nearly true as it is  
reasonably possible to make the same in color illustrations of  
this type, typical flower and foliage characteristics of the new  
cultivar.

Colors in the photographs differ slightly from the color  
values cited in the detailed description, which accurately  
describes the colors of 'Bondreredem'. The plants were  
grown in 4-inch pots for 6 weeks in a greenhouse at West  
Chicago, Ill.

FIG. 1 illustrates a side view of the overall growth and  
flowering habit of 'Bondreredem'.



FIG. 2 illustrates a close-up view of an individual inflorescence of 'Bondreredem'.

#### DETAILED BOTANICAL DESCRIPTION

The new cultivar has not been observed under all possible environmental conditions to date. Accordingly, it is possible that the phenotype may vary somewhat with variations in the environment, such as temperature, light intensity, and day length, without, however, any variance in genotype.

The chart used in the identification of colors described herein is The R.H.S. Colour Chart of The Royal Horticultural Society, London, England, 2001 edition, except where general color terms of ordinary significance are used. The color values were determined in July 2010 under natural light conditions in West Chicago, Ill.

The following descriptions and measurements describe plants produced from cuttings from stock plants and grown in a glass-covered greenhouse under conditions comparable to those used in commercial practice. The plants were grown in West Chicago, Ill. in 4-inch pots for 6 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 70° F. to 77° F. (21° C. to 25° C.) during the day and approximately 65° F. to 68° F. (18° C. to 20° C.) during the night. Greenhouse light levels of 2,500 footcandles to 6,000 footcandles were maintained during the day. Measurements and numerical values represent averages of typical plants.

Botanical classification: *Xerochrysum bracteatum* cultivar Bondreredem.

Parentage:

*Female parent*.—DREAMTIME Jumbo Light Pink 'Bondrelaipei', copending U.S. Plant patent application Ser. No. 12/924,191.

*Male parent*.—Proprietary *Xerochrysum bracteatum* breeding selection designated 06-30, not patented.

*Type cutting*.—Terminal stem.

*Time to initiate roots*.—Approximately 6 to 9 days.

*Time to produce a rooted cutting*.—Approximately 21 to 28 days.

*Root description*.—Fibrous, fine.

*Rooting habit*.—Freely branching.

Plant description:

*Commercial crop time*.—Approximately 6 to 8 weeks from a rooted cutting to finish in a 10 cm pot.

*Growth habit and general appearance*.—Moderately vigorous, compact-mounded.

*Size*.—Height from soil level to top of plant plane: Approximately 13.9 cm. Width: Approximately 16.1 cm.

*Branching habit*.—Freely branching. Quantity of main branches per plant: Approximately 7.

*Branch*.—Strength: Strong. Length to base of peduncle: Approximately 4.5 cm. Diameter: Approximately 3.0 mm. Length of central internode: Approximately 8.0 mm. Texture: Densely pubescent. Color of young and mature stems: 144D.

Foliage description:

*General description*.—Quantity of leaves per main branch: Approximately 8. Fragrance: Slight. Form: Simple. Arrangement: Alternate.

*Leaves*.—Aspect: Acute angle to stem becoming an obtuse angle with age. Shape: Linear to elliptic. Margin: Entire. Apex: Acuminate. Base: Sessile. Venation pattern: Parallel. Length of mature leaf: Approxi-

mately 6.6 cm. Width of mature leaf: Approximately 1.4 cm. Texture of upper surface: Moderately pubescent. Texture of lower surface: Sparsely pubescent. Color of upper surface of young foliage: 137B with indistinguishable venation except for midvein of 145B. Color of lower surface of young and mature foliage: Closest to 137B with indistinguishable venation except for midvein of 145B. Color of upper surface of mature foliage: Closest to 139A with indistinguishable venation except for midvein of 145B.

Flowering description:

*Flowering habit*.—'Bondreredem' is freely flowering under outdoor growing conditions with substantially continuous blooming from spring through autumn and year-round in greenhouse environment.

*Lastingness of individual inflorescence on the plant*.—Approximately 2 to 3 weeks.

Inflorescence description:

*General description*.—Type: Double, composite. Persistent. Shape: Hemispherical when involucre bracts are fully expanded. Aspect: Facing outward or upward held above the foliage. Arrangement: Terminal, solitary. Disc florets and involucre bracts develop acropetally on a capitulum. Fragrance: None. Quantity per plant: Approximately 2. Diameter: Approximately 5.0 cm. Depth: Approximately 1.8 cm.

*Peduncle*.—Strength: Strong. Aspect: Erect. Length: Approximately 6.2 cm. Diameter: Approximately 3.0 mm. Texture: Tomentose. Color: 144B.

*Bud*.—Rate of opening: Generally takes 14 to 21 days for bud to progress from first color to fully open flower. Quantity per plant: Approximately 5.

*Bud just before opening*.—Shape: Ovoid. Length: Approximately 1.6 cm. Diameter: Approximately 1.0 cm. Color: 187B.

*Involucre bracts*.—Quantity per inflorescence: Approximately 250. Arrangement: Imbricate in approximately 8 whorls. Aspect: Initially at acute angle to disc, becoming perpendicular at maturity and downward turning as senesce. Shape: Lanceolate, slightly cupped with sides turned upward. Margin: Entire. Apex: Acute. Base: Truncate. Length of outermost: Approximately 1.2 cm. Length of innermost: Approximately 6.0 mm. Width of outermost: Approximately 5.0 mm. Width of innermost: Approximately 1.0 mm. Texture of upper and lower surfaces: Glabrous, papery. Color of upper surface when first open: Base of 4B transitioning to N34A at center with 187B at tips. Color of lower surface when first open: Base and center of 4B with margins of 34B and 187B at tips. Color of upper surface when fully open: Base of 4A transitioning to N34A at center with 187B at tips of outermost bracts. Color of lower surface when fully open: Base of 4A transitioning to N34A at center with 187B at tips of outermost bracts.

*Disc florets*.—Quantity per inflorescence: Numerous, greater than 500. Arrangement: Massed in center of inflorescence, multiple whorls of female florets at perimeter. Shape: Tubular with an outer whorl of approximately 20 feather-like filaments closest to 155A and approximately 6.0 mm in length. Margin: Entire. Apex: Five acute tips. Base: Fused. Length: Approximately 1.0 cm. Diameter at apex: Approximately 1.0 mm. Diameter at base: Less than 1 mm.

Texture: Glabrous. Color when fully open: 21A transitioning through 155D to a colorless, opaque base.  
*Disc.*—Diameter: Approximately 1.8 cm. Depth: Approximately 1.4 cm.  
*Receptacle.*—Shape: Flat. Diameter: Approximately 2.0 cm. Color: 145D.  
*Reproductive organs.*—Androecium: Stamen quantity: 5 per floret, fused around the style. Stamen length: Approximately 7.0 mm. Anther shape: Linear. Anther length: Approximately 3.0 mm. Anther color: 14A. 10  
Pollen amount: Moderate. Pollen color: 14B. Gynoecium: Pistil quantity: 1 per floret. Pistil length: Approximately 1.0 cm. Stigma shape: Bi-parted.

Stigma length: Approximately 2.0 mm. Stigma color: 21A. Style length: Approximately 7.0 mm. Style color: Colorless, transparent. Ovary length: Approximately 1.0 mm. Ovary color: Colorless, opaque.  
Seed and fruit production: Neither seed nor fruit production has been observed.  
Disease and pest resistance: Resistance to pathogens and pests common to *Xerochrysum* has not been observed.  
What is claimed is:  
1. A new and distinct cultivar of *Xerochrysum* plant named ‘Bondreredem’, substantially as herein shown and described.

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FIG. 1



FIG. 2