



(12) **United States Plant Patent**
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(54) **XEROCHRYSUM PLANT NAMED**
'BONDREPUHO'

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

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patent is extended or adjusted under 35
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(58) **Field of Classification Search** **Plt./359**
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Xerochrysum* plant named
'Bondrepuho', characterized by its double-type white-col-
ored inflorescences, dark green-colored foliage, and moder-
ately 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: 'Bondrepuho'.

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
'Bondrepuho'.

The new cultivar originated in a controlled breeding pro-
gram in Yellow Rock, New South Wales, Australia during
September 2005. The objective of the breeding program was
the development of *Xerochrysum* cultivars with large inflo-
rescences having attractive colors, and moderately vigorous,
compact-mounded growth habit.

The new *Xerochrysum* cultivar is the result of cross-pollina-
tion. The female (seed) parent of the new cultivar is
DREAMTIME Jumbo White 'Ohdrejumwhi', U.S. Plant Pat.
No. 17,626, characterized by its double-type, white-colored
inflorescences, dark green-colored foliage, and vigorous,
upright growth habit. The male (pollen) parent of the new
cultivar is the proprietary *Xerochrysum bracteatum* breeding
selection designated 04-50, not patented, characterized by its
double-type, pink-colored inflorescences, dark green-colored
foliage, and vigorous, upright-mounded growth habit. The
new cultivar was discovered and selected as a single flowering
plant within the progeny of the above stated cross-pollination
during June 2006 in a controlled environment at Yellow Rock,
New South Wales, Australia.

Asexual reproduction of the new cultivar by terminal stem
cuttings since June 2006 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-
drepuho' as a new and distinct cultivar of *Xerochrysum* plant:

1. Double-type, white-colored inflorescences;
2. Dark green-colored foliage; and
3. Moderately vigorous, compact-mounded growth habit.

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Plants of the new cultivar differ from plants of the male
parent primarily in inflorescence color and growth vigor.

Of the many commercially available *Xerochrysum* culti-
vars, the most similar in comparison to the new cultivar is the
female parent DREAMTIME Jumbo White 'Ohdrejumwhi',
U.S. Plant Pat. No. 17,626. However, in side by side compari-
sons, plants of the new cultivar differ from plants of
'Ohdrejumwhi' in at least the following characteristics:

1. Plants of the new cultivar have larger diameter inflores-
cences than plants of 'Ohdrejumwhi'; and
2. Plants of the new cultivar have a purer white involucre
bract color than plants of 'Ohdrejumwhi'.

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 accu-
rately describes the colors of 'Bondrepuho'. 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 'Bondrepuho'.

FIG. 2 illustrates a close-up view of an individual inflores-
cence of 'Bondrepuho'.

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 gen-
eral color terms of ordinary significance are used. The color
values were determined in July 2010 under natural light con-
ditions 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 Bondrepuho.

Parentage:

Female parent.—DREAMTIME Jumbo White ‘Ohdrejumwhi’, U.S. Plant Pat. No. 17,626.

Male parent.—Proprietary *Xerochrysum bracteatum* breeding selection designated 04-50, not patented.

Propagation:

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 16.4 cm. Width: Approximately 17.1 cm.

Branching habit.—Freely branching. Quantity of main branches per plant: Approximately 5.

Branch.—Strength: Strong. Length to base of peduncle: Approximately 4.8 cm. Diameter: Approximately 3.0 mm. Length of central internode: Approximately 8.5 mm. Texture: Densely pubescent. Color of young and mature stems: 144D.

Foliage description:

General description.—Quantity of leaves per main branch: Approximately 7. Fragrance: Slight. Form: Simple. Arrangement: Alternate.

Leaves.—Aspect: Acute angle to stem becoming downward turning with age. Shape: Linear to elliptic. Margin: Entire. Apex: Acuminate. Base: Sessile. Venation pattern: Parallel. Length of mature leaf: Approximately 8.2 cm. Width of mature leaf: Approximately 1.3 cm. Texture of upper surface: Moderately pubescent. Texture of lower surface: Sparsely pubescent. Color of upper surface of young foliage: 137A with indistinguishable venation except for midvien of 145B. Color of lower surface of young and mature foliage: Closest to 137B with indistinguishable venation except for midvien of 145B. Color of upper surface of mature foliage: Closest to 139A with indistinguishable venation except for midvien of 145B.

Flowering description:

Flowering habit.—‘Bondrepuho’ 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 5.5 cm. Depth: Approximately 2.3 cm.

Peduncle.—Strength: Strong. Aspect: Erect. Length: Approximately 9.1 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 3.

Bud just before opening.—Shape: Ovoid. Length: Approximately 1.6 cm. Diameter: Approximately 1.2 cm. Color: 155D.

Involucre bracts.—Quantity per inflorescence: Approximately 300. Arrangement: Imbricate in approximately 15 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 1.9 cm. Length of innermost: Approximately 7.0 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 and fully open: Purer white than 155D. Color of lower surface when first and fully open: Purer white than 155D.

Disc florets.—Quantity per inflorescence: Numerous, greater than 1,000. Arrangement: Massed in center of inflorescence, multiple whorls of female florets at perimeter. Shape: Tubular with an outer whorl of approximately 20 pure-white, feather-like filaments, approximately 6.0 mm in length. Margin: Entire. Apex: Five acute tips. Base: Fused. Length: Approximately 1.1 cm. Diameter at apex: Approximately 1.0 mm. Diameter at base: Less than 1 mm. Texture: Glabrous. Color when fully open: 21A transitioning through 145D to a colorless, opaque base.

Disc.—Diameter: Approximately 1.6 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 9.0 mm. Anther shape: Linear. Anther length: Approximately 3.0 mm. Anther color: 14A. Pollen amount: Moderate. Pollen color: 14B. Gynoecium: Pistil quantity: 1 per floret. Pistil length: Approximately 1.1 cm. Stigma shape: Bi-parted. Stigma length: Approximately 2.0 mm. Stigma color: 21A. Style length: Approximately 8.0 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 ‘Bondrepuho’, substantially as herein shown and described.



FIG. 1



FIG. 2