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

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- (54) **ANGELONIA PLANT NAMED**  
**'BALARCWITE'**
- (50) Latin Name: *Angelonia angustifolia*  
Varietal Denomination: **Balarcwite**
- (75) Inventor: **Ellen Leue**, DeKalb, IL (US)
- (73) Assignee: **Ball Horticultural Company**, West  
Chicago, IL (US)
- (\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 121 days.
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- (51) **Int. Cl.**  
**A01H 5/00** (2006.01)
- (52) **U.S. Cl.** ..... **Plt./404**
- (58) **Field of Classification Search** ..... **Plt./404**  
See application file for complete search history.

(56) **References Cited**  
**PUBLICATIONS**

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(57) **ABSTRACT**

A new and distinct cultivar of *Angelonia* plant named 'Bal-  
arcwite', characterized by its white-colored flowers having a  
green-colored throat, dark green-colored foliage, and moder-  
ately vigorous, semi-upright growth habit, is disclosed.

**1 Drawing Sheet**

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Latin name of genus and species of plant claimed: *Angelo-*  
*nia angustifolia*.  
Variety denomination: 'Balarcwite'.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of *Angelonia* plant botanically known as *Angelonia angusti-*  
*folia* and hereinafter referred to by the cultivar name 'Bal-  
arcwite'.

The new cultivar originated in a controlled breeding pro-  
gram in Elburn, Ill. during November 2005. The objective of  
the breeding program was the development of *Angelonia*  
cultivars having large flowers, unique flower coloration, con-  
tinuous flowering, and a moderately vigorous, freely branch-  
ing, and upright to semi-upright growth habit.

The new *Angelonia* cultivar is the result of cross-pollina-  
tion. The female (seed) parent of the new cultivar is the  
proprietary *Angelonia angustifolia* breeding selection desig-  
nated 355-2, not patented, characterized by its light lavender  
blue-colored flowers, medium green-colored foliage, low  
vigor, and semi-upright growth habit. The male (pollen) par-  
ent of the new cultivar is the proprietary *Angelonia angusti-*  
*folia* breeding selection designated 1549, not patented, char-  
acterized by its white-colored flowers, dark green-colored  
foliage, and vigorous, upright growth habit. The new cultivar  
was discovered and selected as a single flowering plant within  
the progeny of the above stated cross-pollination during  
December 2006 in a controlled environment in Elburn, Ill.

Asexual reproduction of the new cultivar by terminal stem  
cuttings since December 2006 at Elburn, Ill. and West Chi-  
cago, 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.

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**SUMMARY OF THE INVENTION**

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

1. White-colored flowers having a green-colored throat;
2. Dark green-colored foliage; and
3. Moderately vigorous, semi-upright growth habit.

Plants of the new cultivar differ from plants of the female  
parent primarily in flower size, flower color, and vigor, and  
from plants of the male parent primarily in flower size and  
growth habit. Plants of the new cultivar have larger flowers  
than plants of either parent.

Of the many commercially available *Angelonia* cultivars,  
the most similar in comparison to the new cultivar is ANGEL-  
FACE White 'Anwhitim', U.S. Plant Pat. No. 19,866. How-  
ever, in side by side comparisons, plants of the new cultivar  
differ from plants of 'Anwhitim' in at least the following  
characteristics:

1. Plants of the new cultivar have a glabrous stem texture  
that is different from the densely glandular pubescent  
stem texture of plants of 'Anwhitim';
2. Plants of the new cultivar have a smaller throat, as  
measured by length and width, than plants of  
'Anwhitim';
3. Plants of the new cultivar have light green-colored teeth  
unlike plants of 'Anwhitim'; and
4. Plants of the new cultivar have more green coloration on  
the inner and outer throat than plants of 'Anwhitim'.

**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 'Balarcwite'. The plants were grown in 4-inch pots for 11 weeks in a greenhouse at West Chicago, Ill.

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

FIG. 2 illustrates a close-up view of an individual flower of 'Balarcwite'.

#### 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, 2007 edition, except where general color terms of ordinary significance are used. The color values were determined in March 2011 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 11 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: *Angelonia angustifolia* cultivar Balarcwite.

Parentage:

*Female parent.*—Proprietary *Angelonia angustifolia* breeding selection designated 355-2, not patented.

*Male parent.*—Proprietary *Angelonia angustifolia* breeding selection designated 1549, not patented.

Propagation:

*Type cutting.*—Terminal stem.

*Time to initiate roots.*—Approximately 7 to 9 days.

*Time to produce a rooted cutting.*—Approximately 24 to 28 days.

*Root description.*—Fine, fibrous.

*Rooting habit.*—Freely branching.

Plant description:

*Commercial crop time.*—Approximately 5 to 8 weeks from a rooted cutting to finish in a 10 cm pot.

*Growth habit and general appearance.*—Moderately vigorous, semi-upright.

*Size.*—Height from soil level to top of plant plane: Approximately 26.1 cm. Width: Approximately 23.2 cm.

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

*Branch.*—Shape: Square in cross section. Strength: Moderate, somewhat brittle. Length: Approximately 23.5 cm. Diameter: Approximately 3.0 mm. Length of central internode: Approximately 1.3 cm. Texture: Glabrous. Color of young stem: 144B. Color of mature stem: 144A.

Foliage description:

*General description.*—Quantity of leaves per main branch: Approximately 18. Fragrance: None. Form: Simple. Arrangement: Opposite.

*Leaves.*—Aspect: Perpendicular or obtuse angle to stem. Shape: Elliptic. Margin: Widely serrate. Apex: Acute. Base: Sessile. Venation pattern: Pinnate. Length of mature leaf: Approximately 6.7 cm. Width of mature leaf: Approximately 1.9 cm. Texture of upper surface: Glabrous. Texture of lower surface: Glabrous. Color of upper surface of young foliage: 137A with indistinguishable venation. Color of lower surface of young and mature foliage: N137B with midvein of 145B, other venation indistinguishable. Color of upper surface of mature foliage: Closest to 139A with indistinguishable venation.

Flowering description:

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

*Lastingness of individual flower on the plant.*—Approximately 7 to 10 days.

Inflorescence description:

*General description.*—Type: Terminal raceme. Quantity per plant: Approximately 3. Fragrance: Slight, sweet. Length or height: Approximately 14.8 cm. Width: Approximately 6.1 cm. Quantity of fully open flowers per inflorescence: Approximately 10.

Flower description:

*Type.*—Solitary, zygomorphic.

*Bud.*—Rate of opening: Generally takes 3 to 4 days for bud to progress from first color to fully open flower. Quantity per inflorescence: Approximately 10.

*Bud just before opening.*—Shape: Globular. Length: Approximately 6.0 mm. Diameter: Approximately 6.0 mm. Color of upper surface: 145C. Color of lower surface: 145B.

*Corolla.*—Shape: Bilabiate. Aspect: Facing outward. Length: Approximately 3.1 cm. Width: Approximately 2.8 cm. Depth: Approximately 9.0 mm.

*Petals.*—Quantity: 5, petals are fused at base forming a throat and consisting of an upper lip with 2 petals and a lower lip with 3 petals, consisting of 2 lateral petals and one central petal. Shape: Obovate. Margin: Entire, somewhat wavy. Apex: Obtuse.

*Upper lip.*—Length of petals from throat: Approximately 1.0 cm. Width of each petal: Approximately 1.4 cm. Texture of upper surface: Sparsely glandular pubescent. Gland color: Colorless, transparent. Texture of lower surface: Glabrous. Color of upper surface when fully open: Purer white than 155D. Color of lower surface when fully open: Purer white than 155D.

*Lower lip, lateral petals.*—Length of petals from throat: Approximately 1.1 cm. Width of each petal: Approximately 1.4 cm. Texture of upper surface: Sparsely glandular pubescent. Texture of lower surface: Densely glandular pubescent. Gland color: Colorless, transparent. Color of upper surface when fully open: Purer white than 155D. Color of lower surface when fully open: Purer white than 155D.

*Lower lip, central petal.*—Length from the palate: Approximately 1.0 cm. Width: Approximately 1.5 cm. Texture of upper surface: Sparsely glandular

pubescent. Texture of lower surface: Densely glandular pubescent. Gland color: Colorless, transparent. Color of upper surface when fully open: Purer white than 155D. Color of lower surface when fully open: Purer white than 155D.

*Throat*.—Length: Approximately 1.1 cm. Width: Approximately 8.0 mm. Texture of inner surface: Sparsely glandular pubescent. Gland color: Mixture of colorless and 144A, transparent. Texture of outer surface: Glabrous. Color of inner surface: Purer white than 155D with an overlay of 144A. Color of outer surface: 144D. Palate color: 144A. Palate texture: Glabrous. Teeth color: 145D.

*Calyx*.—Shape: Star, cupped. Diameter: Approximately 7.0 mm.

*Sepals*.—Quantity per flower: 5, fused at base. Shape: Lanceolate. Apex: Acute. Length: Approximately 4.0 mm. Width: Approximately 2.0 mm. Texture of upper surface: Glabrous. Texture of lower surface: Sparsely glandular pubescent. Gland color: Colorless, transparent. Color of upper and lower surfaces: Closest to 137A.

*Pedicel*.—Strength: Strong. Aspect: Acute angle to stem. Length: Approximately 1.9 cm. Diameter: Approximately 1.0 mm. Texture: Glabrous. Color: 144A.

*Reproductive organs*.—Androecium: Stamen quantity: 4 per flower. Filament length: Approximately 4.0 mm. Filament color: Purer white than 155D, opaque. Sparsely glandular pubescent. Gland color: Colorless, transparent. Anther shape: Bilobed. Anther length: Approximately 1.0 mm. Anther color: 155D. Pollen amount: Moderate. Pollen color: 155D. Gynoecium: Pistil quantity: 1 per flower. Pistil length: Approximately 5.0 mm. Stigma shape: Pointed. Stigma length: Less than 1 mm. Stigma color: Colorless, opaque. Style length: Approximately 4.0 mm. Style color: Colorless, opaque. Ovary diameter: Approximately 1.0 mm. Ovary texture: Glabrous. Ovary color: 145B.

Seed and fruit production: Neither seed nor fruit production has been observed.

Disease and pest resistance: Resistance to pathogens and pests common to *Angelonia* has not been observed.

What is claimed is:

1. A new and distinct cultivar of *Angelonia* plant named 'Balarcwite', substantially as herein shown and described.

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FIG. 1



FIG. 2