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Hambali

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(54) **CALATHEA PLANT NAMED 'MIA'**

(52) **U.S. Cl.** **Plt./375**

(50) Latin Name: *Calathea hybrida*
Varietal Denomination: **Mia**

(58) **Field of Classification Search** Plt./375
See application file for complete search history.

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(57) **ABSTRACT**

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 132 days.

A new and distinct cultivar of *Calathea* plant named 'Mia',
characterized by its upright and outwardly spreading growth
habit; elliptic-shaped dark green-colored leaves with a broad
metallic silver green-colored marginal band; leaves often
variably tinged with pink when developing; and long-lasting
inflorescences with green and pink-colored bracts held
above the foliage on strong scapes.

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

3 Drawing Sheets

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CROSS-REFERENCE TO RELATED
APPLICATIONS

SUMMARY OF THE INVENTION

The present application is co-pending with the following
related application: *Calathea* Plant Named 'Indri'; Gregori
G. Hambali, Applicant.

Plants of the cultivar Mia have not been observed under
all possible environmental conditions. The phenotype may
vary somewhat with variations in environment such as
temperature and/or light intensity without, however, any
variance in genotype.

Botanical classification/cultivar designation: *Calathea*
hybrida cultivar Mia.

The following traits have been repeatedly observed and
are determined to be the unique characteristics of 'Mia'.
These characteristics in combination distinguish 'Mia' as a
new and distinct cultivar:

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct culti-
var of *Calathea* plant, botanically known as *Calathea*
hybrida, and hereinafter referred to by the name 'Mia'.

1. Upright and outwardly spreading growth habit.
2. Elliptic-shaped dark green-colored leaves with a broad
metallic silver green-colored marginal band; leaves
often variably tinged with pink when developing.
3. Long-lasting inflorescences with green and pink-
colored bracts held above the foliage on strong scapes.

The new *Calathea* is a product of a planned breeding
program conducted by the Inventor in Bogor, Indonesia. The
objective of the breeding program is to create new flowering
Calathea cultivars with a plant habit appropriate for con-
tainer production, desirable flowering habit and color and
good postproduction longevity.

Plants of the new *Calathea* can be compared to the female
parent, the unnamed selection of *Calathea loesenerii*. How-
ever plants of the new *Calathea* differ from plants of the
female parent selection in the following characteristics:

The new *Calathea* originated from a cross-pollination
made by the Inventor in Bogor, Indonesia in July, 1996, of
an unnamed selection of *Calathea loesenerii*, not patented,
as the female, or seed, parent with the *Calathea roseo picta*
cultivar Eclipse, disclosed in U.S. Plant Pat. No. 9,621, as
the male, or pollen, parent. The cultivar Mia was discovered
and selected by the Inventor as a single plant within the
progeny of the stated cross-pollination in a controlled envi-
ronment in Bogor, Indonesia in December, 1998.

1. Plants of the new *Calathea* are shorter and more
outwardly spreading than plants of the female parent
selection.
2. Plants of the new *Calathea* have larger leaves than
plants of the female parent selection.
3. Plants of the new *Calathea* and the female parent
selection differ in leaf coloration.

Asexual reproduction of the new *Calathea* by divisions in
a controlled environment in Bogor, Indonesia since April,
1999, has shown that the unique features of this new
Calathea are stable and are reproduced true to type in
successive generations. Asexual reproduction of the new
Guzmania by tissue culture done in a laboratory in Sebring,
Fla. since Spring, 2000, has also confirmed that the unique
features of this new *Calathea* are stable and are reproduced
true to type in successive generations.

Plants of the new *Calathea* are most similar to plants of
the male parent, the cultivar Eclipse. However plants of the
new *Calathea* differ from plants of the cultivar Eclipse in the
following characteristics:

1. Plants of the new *Calathea* are taller and more upright
than plants of the cultivar Eclipse.
2. Plants of the new *Calathea* have larger leaves than
plants of the cultivar Eclipse.
3. Flowers of plants of the new *Calathea* have green and
pink-colored bracts whereas flowers of plants of the
cultivar Eclipse have green-colored bracts.

4. Flowers of plants of the new *Calathea* have longer scapes than flowers of plants of the cultivar Eclipse.

Plants of the new *Calathea* can also be compared to plants of the *Calathea* hybrid cultivar Indri, disclosed in a U.S. Plant patent application Ser. No. 10/955,477. Plants of the new *Calathea* and the cultivar Indri differ primarily in leaf and flower coloration.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ from the color values cited in the detailed botanical description which accurately describe the colors of the new *Calathea*.

The photograph on the first sheet comprises a top perspective view of a typical flowering plant of 'Mia' grown in a container.

The photograph on the second sheet comprises a side perspective view of a typical flowering plant of 'Mia' grown in a container.

The photograph on the third sheet is a close-up view of a typical inflorescence of 'Mia'.

DETAILED BOTANICAL DESCRIPTION

Plants used for the aforementioned photographs and the following description were about 12 months old and grown in 15-cm containers in Apopka, Fla., in a polyethylene-covered greenhouse with day temperatures ranging from 24 to 35° C., night temperatures ranging from 18 to 24° C. and light levels about 1,500 foot-candles.

All color references are measured against The Royal Horticultural Society Colour Chart, 1995 Edition. Colors and numerical measurements are approximate as plant growth and development depends on environmental conditions and cultural practices such as light level and temperature, among others, without, however any variance in genotype.

Botanical classification: *Calathea roseo picta* cultivar Mia.
Parentage:

Female, or seed, parent.—Unnamed selection of *Calathea loesenerii*, not patented.

Male, or pollen, parent.—*Guzmania roseo picta* cultivar Eclipse, disclosed in U.S. Plant Pat. No. 9,621.

Propagation:

Type.—By tissue culture.

Time to initiate roots on tissue-cultured plants.—

Summer: About two weeks at temperatures of 26° C.

Winter: About three weeks at temperatures of 21° C.

Time to produce a rooted tissue-cultured plant.—

Summer: About ten weeks at 26° C. Winter: About 13 weeks at 21° C.

Root description.—Main roots, fibrous; lateral roots, fine; dark brown in color.

Plant description:

Form.—Upright and broad outwardly spreading growth habit; freely clumping, leaves emerging from the base in a rosette; about eight to ten axillary branches per plant.

Plant height, soil level to top of plant plane.—About 33 to 40 cm.

Plant width.—About 40 to 45 cm.

Petiole description.—Aspect: Upright. Length: About 16 to 22 cm. Diameter: About 6 mm. Texture, upper and lower surfaces: Smooth. Color: 187A. Leaf sheath: Length: About 12 cm. Width: About 1 cm. Apex: Tapering and becoming flush with the petiole. Texture, upper and lower surfaces: Fleshy. Color: 187A. Geniculum: Length: About 3.2 cm. Width: About 6 mm. Aspect: During the night and early morning, the geniculum is straight or slightly curved; during the day, the geniculum is bent about 90°. Texture, upper and lower surfaces: Smooth. Color: 187A tinged with 199A.

Foliage description.—Arrangement: Alternate, simple. Length: About 22 cm. Width: About 16 mm. Shape: Elliptic. Apex: Acuminate. Base: Obtuse. Margin: Entire; undulate. Texture, upper and lower surfaces: Smooth, glabrous; slightly leathery. Midrib is thick and prominent; midrib recessed on the upper leaf surface and protruding from the lower surface. Primary veins are recessed in the leaf blade; leaf blade is concave between the primary veins. Venation pattern: Pinnate. Color: Developing foliage, upper surface: Center, 137B; marginal border, 194C; midrib, 147C with 194C; primary veins, 147C; leaf often variably tinged with 58A. Developing foliage, lower surface: 187A; midrib, 177A tinged with 187A; primary veins, 187A. Fully expanded foliage, upper surface: Center, 139A; marginal border, 194B; midrib, 147C with 194B; primary veins, 147C. Fully expanded foliage, lower surface: 187A; midrib, 177A tinged with 187A; primary veins, 187A.

Inflorescence description:

Natural flowering season.—Plants of the new *Calathea* begin flowering in April in Apopka, Fla.

Inflorescence/flower longevity.—Inflorescences maintain good color for about ten weeks on the plant. Individual flowers last about one day on the plant.

Type/arrangement.—Tall, terminally bracted spike. About 30 to 38 cm in height. Flower bracts are arranged in closely-spaced vertical ranks and occupy the uppermost 6 cm of the spike. About seven terminal bracts and about twelve lower bracts with underlying flowers.

Terminal bract shape.—Ovate; apex; acute; margin, entire.

Lower bract shape.—Obovate; apex, emarginate; margin, entire.

Terminal bract length.—About 4.4 to 5.4 cm.

Lower bract length.—About 2.8 cm.

Terminal bract width.—About 2.3 to 3 cm.

Lower bract width.—About 2.8 cm.

Terminal and lower bract texture, upper and lower surfaces.—Smooth.

Terminal bract color, immature, upper and lower surfaces.—65B to 65C.

Terminal bract color, mature, upper and lower surfaces.—59D; striations, 59C; towards the margins, 59C; towards the base, 155D flushed with 146D.

Lower bract color, immature, upper and lower surfaces.—65B to 65C.

Lower bract color, mature, upper and lower surfaces.—155D flushed with 146D; towards the margins, 59B.

Flowers.—Arrangement: Borne in short branch spikes under the lower bracts. Each branch spike contains about four flowers/buds. About 50 flowers/buds per

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inflorescence. Calyx and corolla mostly concealed under bracts; staminodes, style and anther prominently displayed. Calyx: Quantity of sepals per flower: Three. Length: About 1.5 cm. Width: About 2.5 mm. Color: 155D. Corolla: Quantity of petals per flower: Three. Length: About 3 cm. Width: About 4 mm. Color: 155D.

Staminodes.—Quantity per flower: Three. Length: Two staminodes, about 3.6 cm; third staminode, about 3.2 cm. Width: About 4 mm. Color: Two staminodes, about 155D; third staminode, 155D, towards the apex, 79D.

Reproductive organs.—Stamen quantity per flower: One. Filament length: About 2.2 cm. Anther length: About 2.5 mm. Anther color: 9D. Style length: About 3 cm. Style color: 155D. Ovary: Inferior, three-

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celled. Ovary length: About 3 mm. Ovary color: 158B.

Scapes.—Length: About 30 cm. Diameter: About 3 mm. Aspect: Erect. Strength: Strong. Texture: Smooth. Color: 187A tinged with 177A.

Disease/pest resistance: Under commercial production conditions, plants of the new *Calathea* have not been noted to be resistant to pathogens or pests common to *Calathea*.

Temperature tolerance: Plants of the new *Calathea* have been observed to tolerate temperatures from 6 to 40° C. in Apopka, Fla.

It is claimed:

1. A new and distinct cultivar of *Calathea* plant named 'Mia', as illustrated and described.

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