

US00PP25715P3

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

(10) **Patent No.:** **US PP25,715 P3**
(45) **Date of Patent:** **Jul. 14, 2015**

(54) ***RHIPSALIDOPSIS* PLANT NAMED
'PKMRHIPS05'**

(50) Latin Name: *Rhipsalidopsis*×*hybrida*
Varietal Denomination: **PKMRhips05**

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(72) Inventor: **Christian Hald Madsen**, Korsør (DK)

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 156 days.

(21) Appl. No.: **13/986,561**

(22) Filed: **May 15, 2013**

(65) **Prior Publication Data**
US 2014/0345020 P1 Nov. 20, 2014

(51) **Int. Cl.**
A01H 5/02 (2006.01)

(52) **U.S. Cl.**
USPC **Plt./372**

(58) **Field of Classification Search**
USPC Plt./372
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

Printout of application information from Community Plant Variety
Office (CPVO) website for corresponding CPVO application No.
2013/0754 filed Mar. 14, 2013 (1 page) ([http://www.cpvoextranet.
cpvo.europa.eu](http://www.cpvoextranet.cpvo.europa.eu)).

Printout of application information from Agricultural Production
Bureau, Ministry of Agriculture, Forestry and Fisheries website for
corresponding Japanese Plant Breeders' Rights application No.
28223 filed May 28, 2013 (1 page). ([http://www.hinsyu.maff.go.jp/
vips2/cmm/apCMM110.aspx?MOSS=1](http://www.hinsyu.maff.go.jp/vips2/cmm/apCMM110.aspx?MOSS=1)).

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(57) **ABSTRACT**

A new and distinct *Rhipsalidopsis* plant named
'PKMRHIPS05' particularly characterized by its compact
plant habit; dense and bushy plant form; moderate growth rate
and upright growth habit; orange colored buds; and large,
upright orange colored flower.

3 Drawing Sheets

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Latin name of the genus and species of the plant claimed:
Rhipsalidopsis×*hybrida*.

Variety denomination: 'PKMRhips05'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Rhipsalidopsis*, botanically known as *Rhipsalidopsis*×*hy-*
brida sometimes referred to as *Rhipsalidopsis* Britton et
Rose, including *Epiphylopsis* Berger, commonly known as
either Easter Cactus or Spring Cactus, and hereinafter
referred to by the cultivar name 'PKMRhips05'.

The new *Rhipsalidopsis* cultivar is a product of a controlled
breeding program conducted by the inventor, Christian Hald
Madsen, in Søhus, Denmark.

The new *Rhipsalidopsis* cultivar originated from a cross
made by the inventor in 2006 in Søhus, Denmark. The female
and male parents are unpatented, proprietary *Rhipsalidopsis*×
hybrida cultivars. The new *Rhipsalidopsis* cultivar was dis-
covered and selected by the inventor as a single flowering
plant within the progeny of the stated cross in a controlled
environment in 2010 in Søhus, Denmark. The inventor
selected 'PKMRhips05' on the basis of its flower color and
compact, freely branching, upright growth habit.

Asexual reproduction of the new *Rhipsalidopsis* cultivar
by phylloclade cuttings was first performed in 2010 in Søhus,
Denmark, and has demonstrated that the combination of char-
acteristics as herein disclosed for the new cultivar are firmly
fixed and retained through successive generations of asexual
reproduction. The new cultivar reproduces true to type.

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BRIEF DESCRIPTION OF THE INVENTION

The following traits have been repeatedly observed and are
determined to be unique characteristics of 'PKMRhips05'
which distinguish this *Rhipsalidopsis* as a new and distinct
cultivar:

1. Upright growth habit;
2. Moderately vigorous growth; and
3. Orange colored buds and flowers.

Data on the parent cultivars is no longer available for com-
parison with the claimed cultivar.

The most similar commercial cultivar to the instant cultivar
'PKMRhips05' is the *Rhipsalidopsis* cultivar '7371 E' (also
known as 'Orange Fire') (patented, U.S. Plant Pat. No.
21,717; CPVO Grant No. 25221). Plants of the instant culti-
var 'PKMRhips05' differ primarily from plants of *Rhipsalid-*
opsis '7371 E' in the following characteristic:

1. Plants of 'PKMRhips05' have a more upright growth
habit than plants of '7371 E', especially seen when
grown as large plants; and
2. Plants of 'PKMRhips05' have a brighter flower color
than plants of '7371 E'.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall
appearance of the new *Rhipsalidopsis* cultivar
'PKMRhips05' showing the colors as true as is reasonably
possible with colored reproductions of this type. Colors in the
photographs may differ slightly from the color values cited in
the detailed botanical description, which accurately describe
the color of 'PKMRhips05'.

FIG. 1 shows a typical flowering plant of 'PKMRhips05' grown in a 5 cm pot.

FIG. 2 shows a close-up view of typical buds and flowers and a single phylloclade of 'PKMRhips05'.

FIG. 3 shows a comparison of a typical plant of 'PKMRhips05' with a typical plant of the comparison variety '7371 E'.

DETAILED BOTANICAL DESCRIPTION

The new *Rhipsalidopsis* cultivar 'PKMRhips05' has not been observed under all possible environmental conditions. The phenotype of the new cultivar may vary with variations in environment such as temperature, light intensity, and day length without any change in the genotype of the plant.

The aforementioned photographs, together with the following observations, measurements and values describe plants of 'PKMRhips05' as grown in a glass-covered greenhouse in Fyn, Denmark, under conditions which closely approximate those generally used in commercial practice, where day temperatures in the greenhouse average 18° C. and night temperatures in the greenhouse average 16° C. Ambient light levels used while growing plants of 'PKMRhips05' are +50 Wm². No growth retardants were used when growing plants of 'PKMRhips05'.

The age of the 'PKMRhips05' plants described is about 10-12 months old and grown in 5 cm pots. The photographs and descriptions were taken during the winter season. Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.), 5th edition, except where general colors of ordinary significance are used.

Classification:

Botanical.—*Rhipsalidopsis* Britton et Rose.

Common name.—Easter Cactus or Spring Cactus.

Variety denomination.—PKMRhips05.

Parentage:

Female or seed parent.—Unpatented, proprietary *Rhipsalidopsis* Britton et Rose cultivar.

Male or pollen parent.—Unpatented, proprietary *Rhipsalidopsis* Britton et Rose cultivar.

Propagation: By phylloclade cuttings.

Time and temperature to initiate roots.—In a greenhouse, about 2 months at 18° C. to 21° C.

Rooting habit and description.—Fine, well-branched.

Plant:

Type.—Perennial, Epiphyte.

Overall shape.—Upright to pendulous.

Form.—Dense and Bushy.

Growth habit.—Branched.

Branching habit.—Three new phylloclades forming at the apical end of older phylloclades. No pinching required.

Growth rate.—Slow.

Vigor.—Moderate.

Crop time.—About 10-12 months are required to produce a finished flowering plant.

Size at maturity.—Height (soil level to top of plant, excluding flowers): About 10-12 cm. Spread: About 12-15 cm, excluding flowers.

Stem: None, older phylloclades may turn woody with age (several years).

Phylloclade:

Arrangement.—Phylloclades form at the apex of older phylloclades to form branches.

Aspect.—Upright to arching (from basal phylloclade).

Strength.—Strong (from basal phylloclade).

Length.—About 20-35 mm.

Width.—Up to 25 mm.

Overall shape.—Oval.

Apex shape.—Truncate.

Base shape.—Rounded.

Margin.—Crenate.

Texture.—Glabrous, smooth.

Pubescence.—Approx. 1-5 hairs up to 4 mm long at areoles along margins.

Color of mature phylloclade.—Upper and lower surfaces: RHS 137B, green, the central part can be a little brighter.

Venation.—None.

Flower description:

Natural flowering season.—Flowering occurs from February to April (northern hemisphere), but can be changed by short day photo-treatment and cold treatment. Flowers persistent, sessile.

Flowering response time.—About 8 to 9 weeks after end of cold treatment.

Flowering longevity (dependent on temperature and light conditions).—About 5 to 6 days.

Fragrance.—None.

Quantity of flowers per terminal phylloclade.—About 1 to 3.

Quantity of flowers and buds per plant.—About 20 to 25, depending on plant size.

Flower bud.—Length: Ranging from 0 to 25 mm (before anthesis). Width: Ranging from 0 to 1 cm. Shape: Ovoid to lanceolatoid. Color: Larger Buds (over 1 cm): RHS N30A, Orange-Red Smaller Buds (up to 1 cm): RHS N30A, Orange-Red.

Flower.—Type: Single. Shape: Actinomorphic. Aspect: Upright to vertical during development. Persistent or self-cleaning: Persistent. Height: About 3.0 cm to 3.5 cm (including ovary). Diameter: Up to 6.5 cm.

Tepals.—Arrangement: Actinomorphic; not fused. Quantity: 15-20. Length: Ranging from 3 mm to 35 mm. Width: Ranging from 0 mm to 5 mm. Shape: Oblanceolate. Apex: Acute. Base: Apical Whorl: Fused; Basal Whorl: Free. Margin: Entire. Appearance: Matte. Texture: Smooth and Silky. Color (When Opening): Upper and lower surfaces: RHS N30A, Orange-Red. Color (When Fully Opened): Upper and lower surfaces: RHS N30B, Orange-Red. Color does not fade.

Reproductive organs:

Androecium.—Stamen: Quantity: Many (>100). Anther: Shape: Oblong. Length: About 1 mm. Color: RHS 14B, yellow-orange. Filament: Length: 13 mm. Color: RHS 155A, White. Pollen: Amount: Plenty. Color: RHS 14B, yellow-orange.

Gynoecium.—Pistil: Quantity: 1. Stigma: Shape: Ovoid. Color: Between RHS 155A and RHS 155B, white. Style: Length: 13 mm. Color: Base: RHS NN155C, white. Apex: RHS NN155C, white. Ovary: Shape: obdeltoid with a broad base. With ribs. Length: 5 mm. Width: 5 mm. Color: Between RHS 164A and 165B, greyed-orange.

Seeds/fruit: None observed.

Disease/pest resistance and susceptibility: Not tested.

Temperature tolerance: Tolerant to a low temperature of about 2° C. and to a high temperature about 40° C.

I claim:

1. A new and distinct *Rhipsalidopsis* plant named 'PKMRHIPS05', as illustrated and described herein.

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FIG. 1

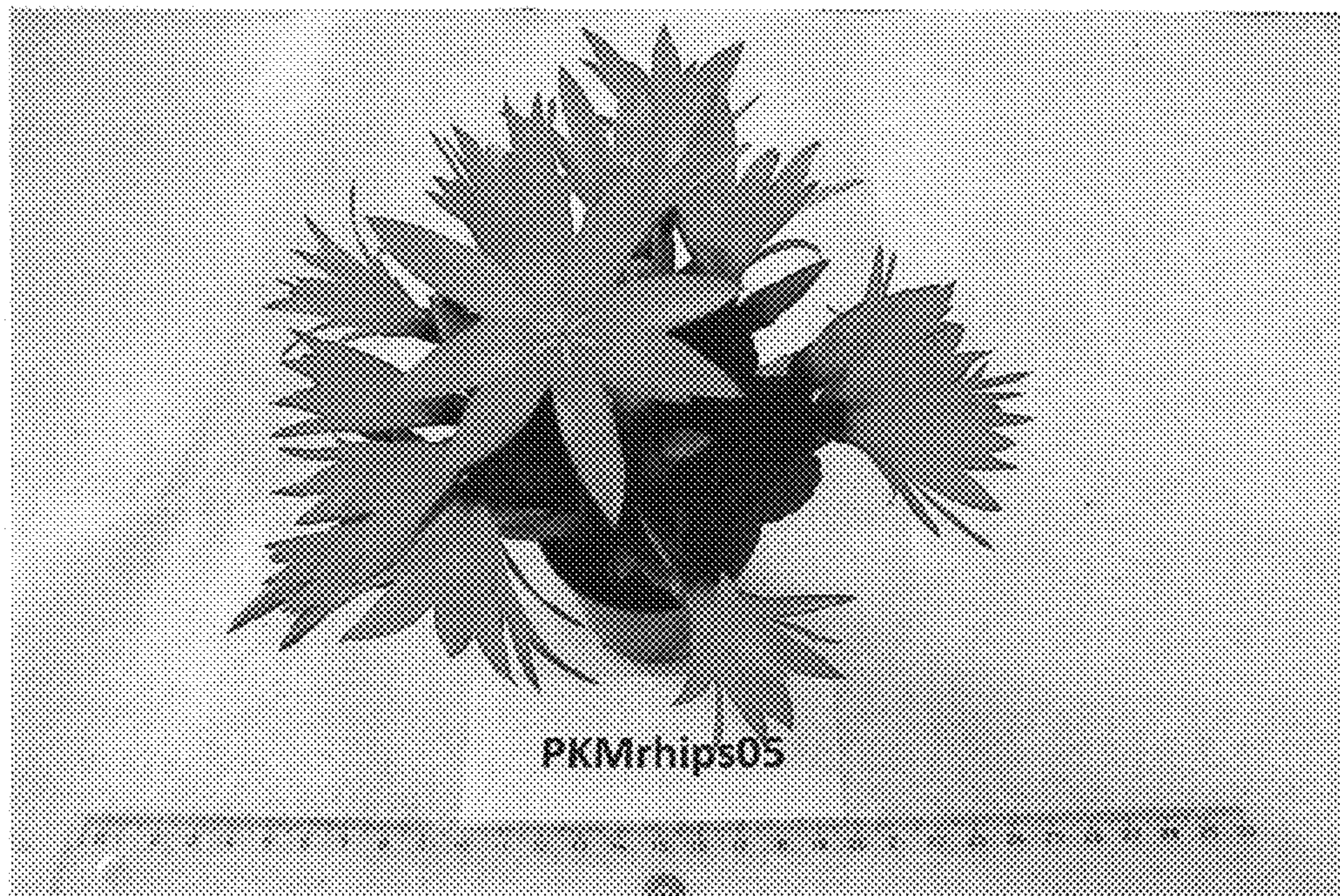


FIG. 2

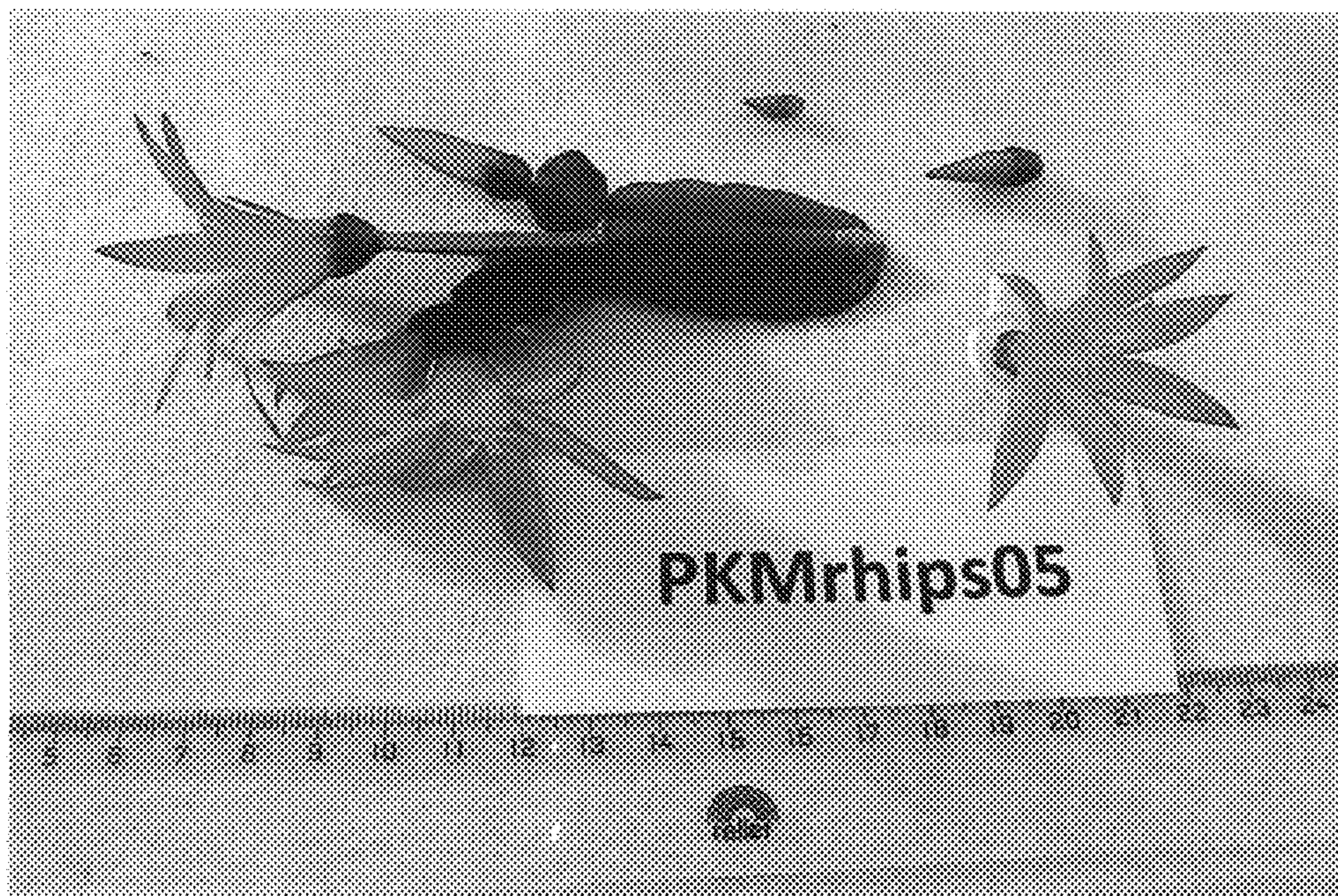


FIG. 3

