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

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(54) ***RHIPSALIDOPSIS* PLANT NAMED  
'PKMRHIPS08'**

(50) Latin Name: *Rhipsalidopsis*×*hybrida*  
Varietal Denomination: **PKMRhips08**

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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 157 days.

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(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.  
2013/1020 filed Apr. 5, 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.  
28226 filed May 29, 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  
'PKMRhips08' particularly characterized by its compact  
plant habit; dense and bushy plant form; moderate growth rate  
and upright growth habit; red colored buds; and large, upright  
red flowers.

**3 Drawing Sheets**

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

Variety denomination: 'PKMRhips08'.

**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 'PKMRhips08'.

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 2007 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 'PKMRhips08' 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 'PKMRhips08'  
which distinguish this *Rhipsalidopsis* as a new and distinct  
cultivar:

1. Upright growth habit and upright flowers;
2. Moderately vigorous growth; and
3. Red 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  
'PKMRhips08' is the *Rhipsalidopsis* cultivar 'PKMrh02'  
(Patented, U.S. Plant Pat. No. 21,425; CPVO Grant No.  
37193). Plants of the instant cultivar 'PKMRhips08' differ  
primarily from plants of *Rhipsalidopsis* 'PKMrh02' in the  
following characteristic:

1. Plants of 'PKMRhips08' have a more upright growth  
habit than plants of 'PKMrh02', especially seen when  
grown as large plants;
2. Plants of 'PKMRhips08' have shorter phylloclades than  
plants of 'PKMrh02' and are thus lower overall in total  
height;
3. Plants of 'PKMRhips08' have more red colored flower  
buds and flowers than plants of 'PKMrh02'; and
4. Plants of 'PKMRhips08' have smaller flowers than  
plants of 'PKMrh02'.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying photographs illustrate the overall  
appearance of the new *Rhipsalidopsis* cultivar



'PKMRhips08' 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 'PKMRhips08'.

FIG. 1 shows a typical flowering plant of 'PKMRhips08' grown in a 9 cm pot.

FIG. 2 shows a close-up view of typical buds and flowers and a single phylloclade of 'PKMRhips08'.

FIG. 3 shows a comparison of a typical plant of 'PKMRhips08' with a typical plant of the comparison variety 'PKMrh02' (left) and a typical plant of the similar variety 'Sagitta' (right).

#### DETAILED BOTANICAL DESCRIPTION

The new *Rhipsalidopsis* cultivar 'PKMRhips08' 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 'PKMRhips08' 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 'PKMRhips08' are +50 Wm<sup>2</sup>. No growth retardants were used when growing plants of 'PKMRhips08'.

The age of the 'PKMRhips08' plants described is about 10-12 months after propagation and grown in 9 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.), 5<sup>th</sup> 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*.—PKMRhips08.

#### 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.

*Form*.—Dense and Bushy.

*Growth habit*.—Branched.

*Branching habit*.—1-3 new phylloclades forming at the apical end of older phylloclades. No pinching required.

*Growth rate*.—Moderate.

*Vigor*.—Good.

*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 25-35 mm.

*Width*.—Up to 24 mm.

*Overall shape*.—Oval.

*Apex shape*.—Truncate.

*Base shape*.—Rounded.

*Margin*.—Crenate. Can be purple, between RHS 83A and RHS 83B.

*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 146A, yellow-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.

*Frangrance*.—None.

*Quantity of flowers per terminal phylloclade*.—About 1 to 2.

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

*Flower bud*.—Length: Ranging from 0 to 30 mm (before anthesis). Width: Ranging from 0 to 8 mm. Shape: Ovoid to lanceolatoid. Color: Larger Buds (over 3 cm): RHS 42A, Red. Smaller Buds (up to 3 cm): RHS 42A, Red.

*Flower*.—Type: Single. Shape: Actinomorphic. Aspect: Upright to vertical during development. Persistent or self-cleaning: Persistent. Height: About 3.5 cm to 4.0 cm (including ovary). Diameter: Up to 7 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 41A, Red. Color (When Fully Opened): Upper and lower surfaces: RHS 41A, 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: 15 mm. Color: RHS N74A, Red-Purple. 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: 15 mm. Color: Base: RHS NN155C, white. Apex: RHS N34A, orange-red. Ovary: Shape:

obdeltoid with a broad base. With ribs. Length: 8 mm.  
Width: 8 mm. Color: Between RHS N77A and RHS  
N77B, purple.  
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  
‘PKMRhips08’, as illustrated and described herein.

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FIG. 1

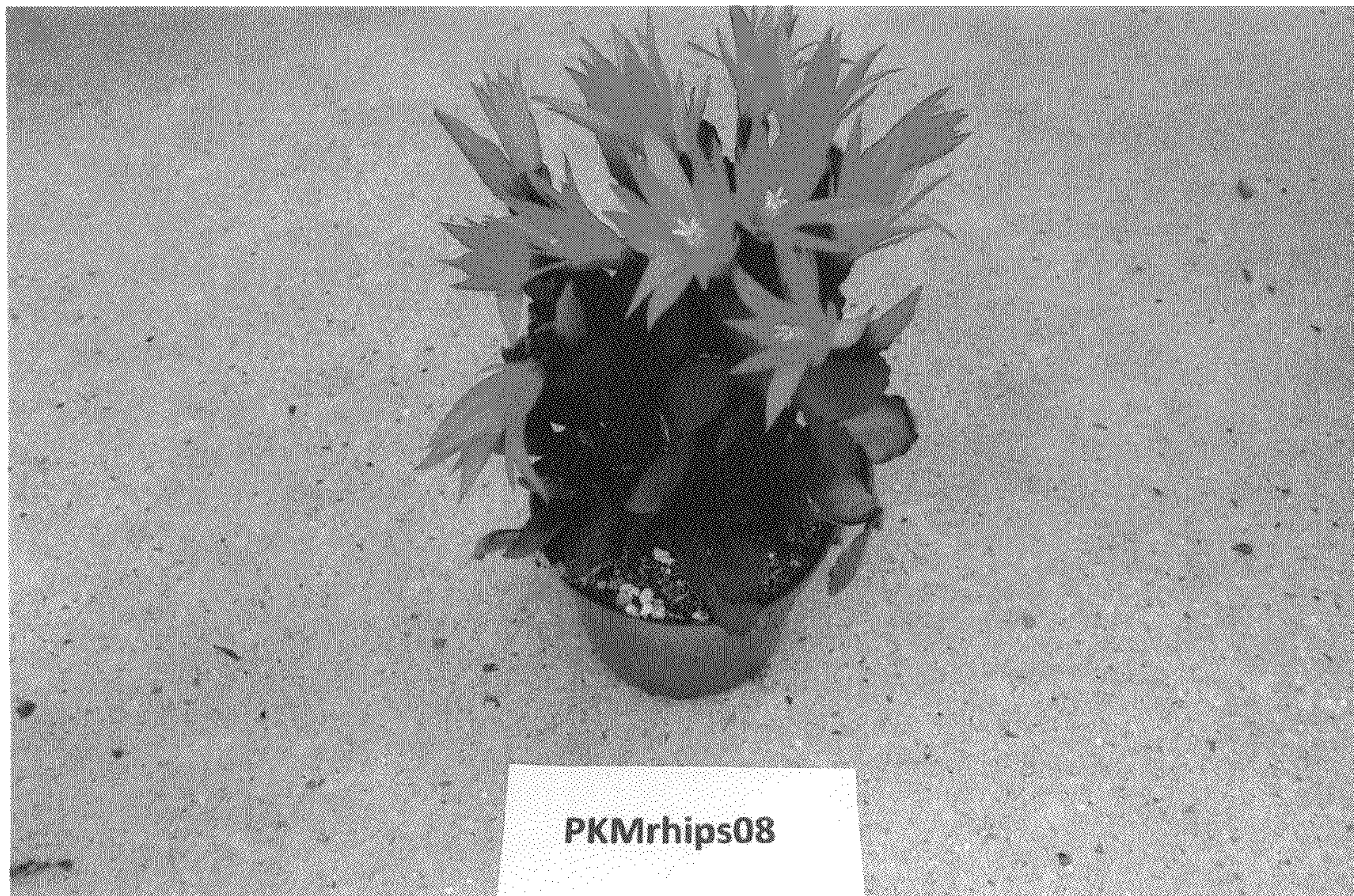




FIG. 2

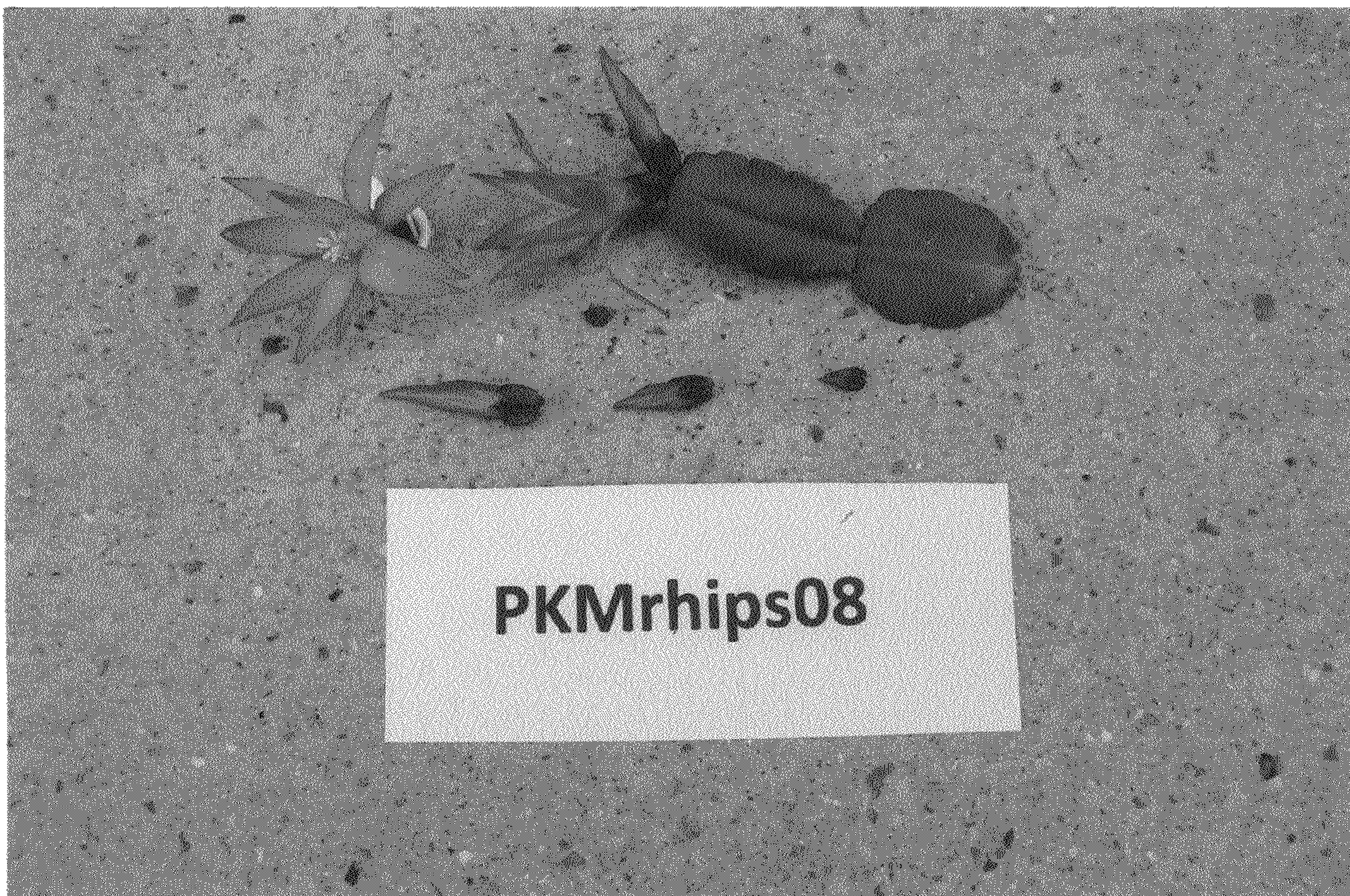




FIG. 3

