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(54) **STRAWBERRY PLANT NAMED ‘YAKIMA’**

(50) Latin Name: *Fragaria x ananassa*
Varietal Denomination: **Yakima**

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A01H 5/08 (2018.01)
A01H 6/74 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./208**
CPC **A01H 6/7409** (2018.05)

(58) **Field of Classification Search**
USPC Plt./209, 208
CPC ... A01H 5/08; A01H 5/02; A01H 5/00; A01H 6/74; A01H 6/7409
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP19,767 P2 2/2009 Shaw et al.
PP25,849 P3 * 9/2015 Larse A01H 6/7409
Plt./209

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(57) **ABSTRACT**

The present invention provides a new and distinct strawberry variety designated as ‘Yakima’ (a.k.a. ‘109733’). ‘Yakima’ is distinguished by its higher percent of marketable fruit, conical fruit shape, thicker canopy and dark green foliage color.

5 Drawing Sheets

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Latin name of the genus and species: *Fragaria x ananassa*.
Varietal denomination: ‘Yakima’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct short-day strawberry variety designated as ‘Yakima’ (a.k.a. ‘109733’).

‘Yakima’ (a.k.a. ‘109733’) is the result of a controlled-cross between a female parent cultivar designated (‘Aida’, a.k.a. ‘106734’) an unpatented, proprietary strawberry plant variety made by the inventor and a male parent cultivar designated ‘Lili’ (a.k.a. ‘101983’ or ‘Lily’, U.S. Plant Pat. No. 25,849) and was first fruited in Watsonville, Calif. growing fields. Following selection and during testing, the plant was originally designated ‘109733’ and subsequently named ‘Yakima’.

The new variety was asexually reproduced via runners (stolons) by the inventor at Watsonville, Calif. Asexual propagules from the original source have been tested in Watsonville growing fields and to a limited extent, grower fields in high elevation. The properties of this variety were found to be transmissible by such asexual reproduction. This cultivar is stable and reproduces true to type in successive generations of asexual reproduction.

DESCRIPTION OF THE DRAWINGS

The accompanying color photographs depict various characteristics of the cultivar as nearly true as possible to make color reproductions.

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FIG. 1 shows ‘Yakima’ fruit.

FIG. 2 shows ‘Yakima’ fruit.

FIG. 3A and FIG. 3B show ‘Yakima’ strawberry plants with fruit.

5 FIG. 4 shows flowers of ‘Yakima’ strawberry plant variety.

SUMMARY OF THE INVENTION

This invention relates to a new and distinctive strawberry cultivar designated as ‘Yakima’. This cultivar is primarily adapted to the climate and growing conditions of the central coast of California. This region provides the necessary temperatures required for it to produce a strong vigorous plant and to remain in fruit production from March through October. The nearby Pacific Ocean provides the needed humidity and moderate day temperatures and evening chilling to maintain fruit quality for the production months.

‘Yakima’ (a.k.a. ‘109733’)

The following traits and photographs in combination distinguish the strawberry variety ‘Yakima’ from known strawberry varieties. In addition, the new cultivar was confirmed to be a unique strawberry germplasm when tested against the California Seed & Plant Lab, Inc. (Elverta, Calif.) database using Short Sequence Repeats (SSRs).
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25 Plants for the botanical measurements in the present application were grown as annuals. Any color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used. The botanical measurements listed in Table 1 were made and recorded during the month of June.

'Yakima' is distinguished from its paternal parent by the percent of marketable fruit (Table 2), for 'Yakima' percent marketable fruit is twenty percentile points greater than its paternal parent 'Lili' (U.S. Plant Pat. No. 25,849). 'Yakima' is distinguished from its maternal parent 'Aida' by the shape of its fruit. The fruit of 'Yakima' is mostly conical, different from the longer somewhat flat wedge shape of the fruit of its parent 'Aida'. 'Yakima' is similar to the strawberry plant named 'Monterey' (U.S. Plant Pat. No. 19,767), but possesses several distinguishing traits from Monterey. 'Yakima' is distinguished from 'Monterey' by the thicker canopy of 'Yakima' and dark green foliage color of 'Yakima'.

TABLE 1

Characteristic Type	Characteristic	Yakima
General	Plant Habit	annual
	Plant Growth Habit	upright
	Day length	short-day
	Planting season	Fall
	Height	35 cm
	Width	36 cm
	Density of foliage	medium
	Plant vigor	high
	Freezing Quality	moderate
	Rain/weather tolerance	moderate to high
Leaf	Harvest Ease	moderate
	Leaf Shape	concave
	Terminal leaflet width	90 mm
	Terminal leaflet length	100 mm
	Terminal leaflet length/width ratio	1.11
	Teeth per terminal leaflet	17 to 19
	Shape of terminal leaflet base	rounded
	Shape of terminal leaflet in cross-section	concave to straight
	Shape of terminal leaflet margin	serrate to crenate
	Color of upper side of leaflet	RHS 136A
Limbs	Color of lower side of leaflet	RHS 139C
	Leaf blistering	weak
	Leaf glossiness	medium
	Leaf variegation	absent
	Number of leaflets	3 leaflets per leaf
	Leaf length	133 mm
	Leaf width	151 mm
	Terminal Leaflet margin	revolute
	Terminal Leaflet shape	Orbicular
	Terminal Leaflet shape of apex	Rounded
Inflorescence	Petiole length	25.5 cm
	Petiole diameter	3.18 to 4.26 mm
	Petiole pubescence	medium
	Petiole pose of hairs	horizontal
	Petiole color	RHS 145A
	Petiolule length	1.0 to 1.5 cm
	Petiolule diameter	2.08 to 2.70 mm
	Stipule length	3.5 cm
	Stipule width	0.9 to 1.0 cm
	Stipule pubescence	dense
Fruit	Stipule anthocyanin	absent
	Stipule color (color code)	RHS 145C
	Pedicel color (color code)	RHS 145A
	Attitude of hairs on peduncle and pedicel	horizontal to slightly upwards
	Peduncle length	19.5 cm
	Pedicel length	13.8 cm
	Inflorescence position relative to foliage	above
	Flower arrangement of petals	touching
	Flower size	medium
	Flower diameter	2.28 cm
Fruit	Petal shape	orbicular
	Petal apex	rounded
	Petal margin	entire
	Petal base shape	concave
	Petal length	1.17 cm

TABLE 1-continued

Characteristic Type	Characteristic	Yakima
Fruit	Petal width	1.15 cm
	Petal length/width ratio	1.02
	Petal number per flower	5 to 7
	Number of flowers	16 to 36
	Upper Petal color	RHS 155D
	Lower Petal color	RHS 155D
	Floral Calyx Diameter	4.08 cm
	Corolla diameter	2.28 cm
	Calyx diameter relative to corolla	larger
	Inner calyx	Outer calyx and inner calyx are of equal size
Fruit	Sepal shape	elliptical
	Sepal apex shape	acute
	Sepal margin	entire
	Sepal length	1.93 cm
	Sepal width	0.61 cm
	Sepal number per flower	12
	Upper Sepal color	RHS 137A
	Lower Sepal color	RHS 137C
	Receptacle color	RHS 4A
	Fertility	not tested
Fruit	Time of flowering (50% of plants in bloom)	May
	Stigma shape	rounded
	Stigma color	RHS 4A
	Style length	5 mm
	Style color	RHS 4A
	Ovary color	RHS 138D
	Stamen number	25
	Stamen length	2.3 mm
	Anther shape	dorsifixed
	Anther shape	1.39 mm
Fruit	Anther color	RHS 6A
	Pollen amount	scarce to moderate
	Pollen color	RHS 163B
	Filament color	RHS 145C
	Filament length	1.2 to 2.8 mm
	Fruiting truss length	6 to 17 cm
	Fruiting truss diameter	1.4 mm
	Number of fruit per truss	1 to 5
	Fruit length	5.3 cm
	Fruit width	4.3 cm
Fruit	Fruit skin color	RHS 45A
	Fruit flesh color excluding core	RHS 44A
	Fruit core color	RHS 41B
	Fruit length/width ratio	1.23
	Fruit weight	33 g
	Relative fruit size	medium to large
	Predominant fruit shape	long conic and long wedge
	Shape difference between primary & secondary fruits	No shape difference
	Width of band without of achenes	narrow
	Fruit glossiness	strong
Fruit	Position of achenes	below surface
	Achene color	RHS 151D
	Achenes per fruit	340
	Achene weight	0.238 g
	Position of calyx	even
	Fruit Calyx Diameter	5.5 cm
	Level of adherence of calyx	medium
	Color of calyx	RHS 137C
	Pose of calyx segments	reflexed
	Size of calyx in relation to fruit	same
Fruit	Firmness of flesh	medium to firm
	Evenness of flesh color	nearly even
	Fruit hollow length	2.3 cm
	Fruit hollow width	1.4 cm
	Fruit hollow length/width ratio	1.64
	Hollow center	absent to medium
	Sweetness	7 to 14 Brix

TABLE 1-continued

Characteristic Type	Characteristic	Yakima
	pH	3.33
	Texture when tasted	fine to medium
	Time of flowering	April through August
	Time of fruit ripening	May
	Harvest maturity (50% of plants with ripe fruit)	June
	Type of bearing	short-day
	Grams of fruit per plant	June: 721 g
	Yield (lb per acre)	June: 31,791 lb/acre
	Firmness	medium to firm
	Surface Texture	smooth
	Appearance Score (rating scale 1 to 5; 5 = best)	4
	Storage longevity	5 to 10 days
	Cull rate: 1% Usable	<10%
Stolon	Stolon number	1 to 3
	Stolon length from crown to first daughter	22.4 cm
	Pubescence density	dense
	Intensity of anthocyanin coloration	absent
	Stolon color	RHS N144D
Disease Resistance	Plant/fruit disease	resistant to <i>Fusarium</i> wilt
	Pest resistance/susceptibility	resistant to <i>Fusarium oxysporum</i> f. sp. <i>fragariae</i> ; susceptible to <i>Colletotrichum acutatum</i>
Other characteristics	Plant hardness zone	USDA hardness zone 9b
	Shipping quality and fruit market use	The fruit of the Yakima strawberry plant is suitable for shipping and merchandising for distant commercial markets.

TABLE 1-continued

Characteristic Type	Characteristic	Yakima
	Short-day designation	Differentiation of new florescence is required for a prior period of vernalization. (short-day genotype)

TABLE 2

Strawberry fruit summary statistic means of yield, percent marketable, flavor, firmness, figure and size during weeks 15 to 37 over years; Watsonville, California.

Variety	Mean fruit height (fHeight)	Mean fruit width (fWidth)	Mean fruit height/width (fHeight/fWidth)	Mean hardness in Newtons (N) (μ hardness)	Mean grams per clone (μ grams/clone)
Yakima	51.0304	40.2999	1.26626	8.79292	1622
Lili	40.2262	35.8540	1.12194	8.78205	1304

Variety	Mean Kilos/acre (μ kilos/acre)	Mean percent of marketable fruit (μ % Usable)	Mean fruit size in Grams (μ fitSizeGrms)	Mean skin-resistance-to-abrasion categorical rating (μ skin-r)	Mean categorical flavor rating (μ flavor)
Yakima	32,443	0.905	31.39	2.13004	2.84304
Lili	26,089	0.797	29.95	2.09745	3.05084

The invention claimed is:

1. A new and distinct cultivar of strawberry plant named 'Yakima' substantially as shown and described herein.

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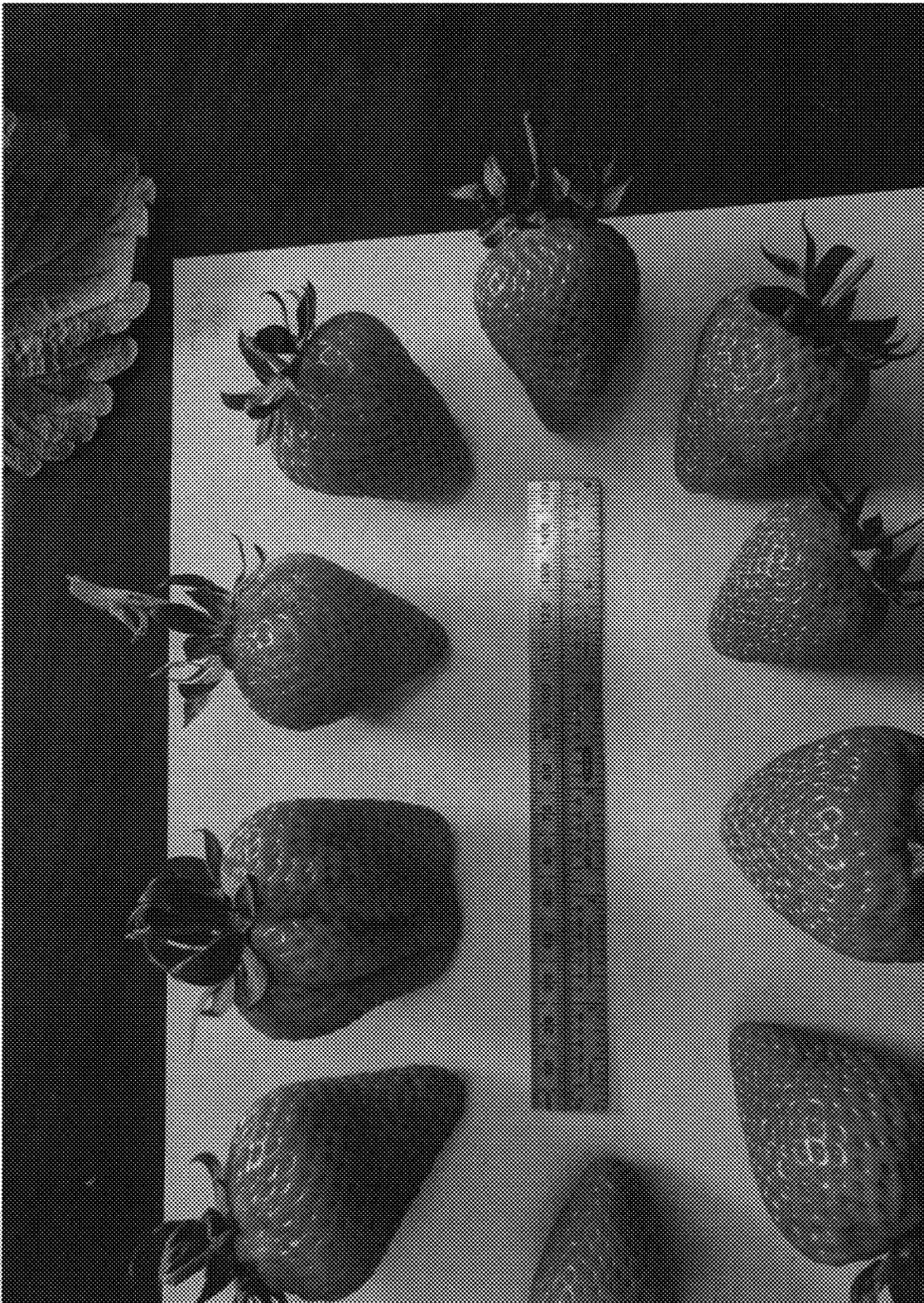


FIG. 1

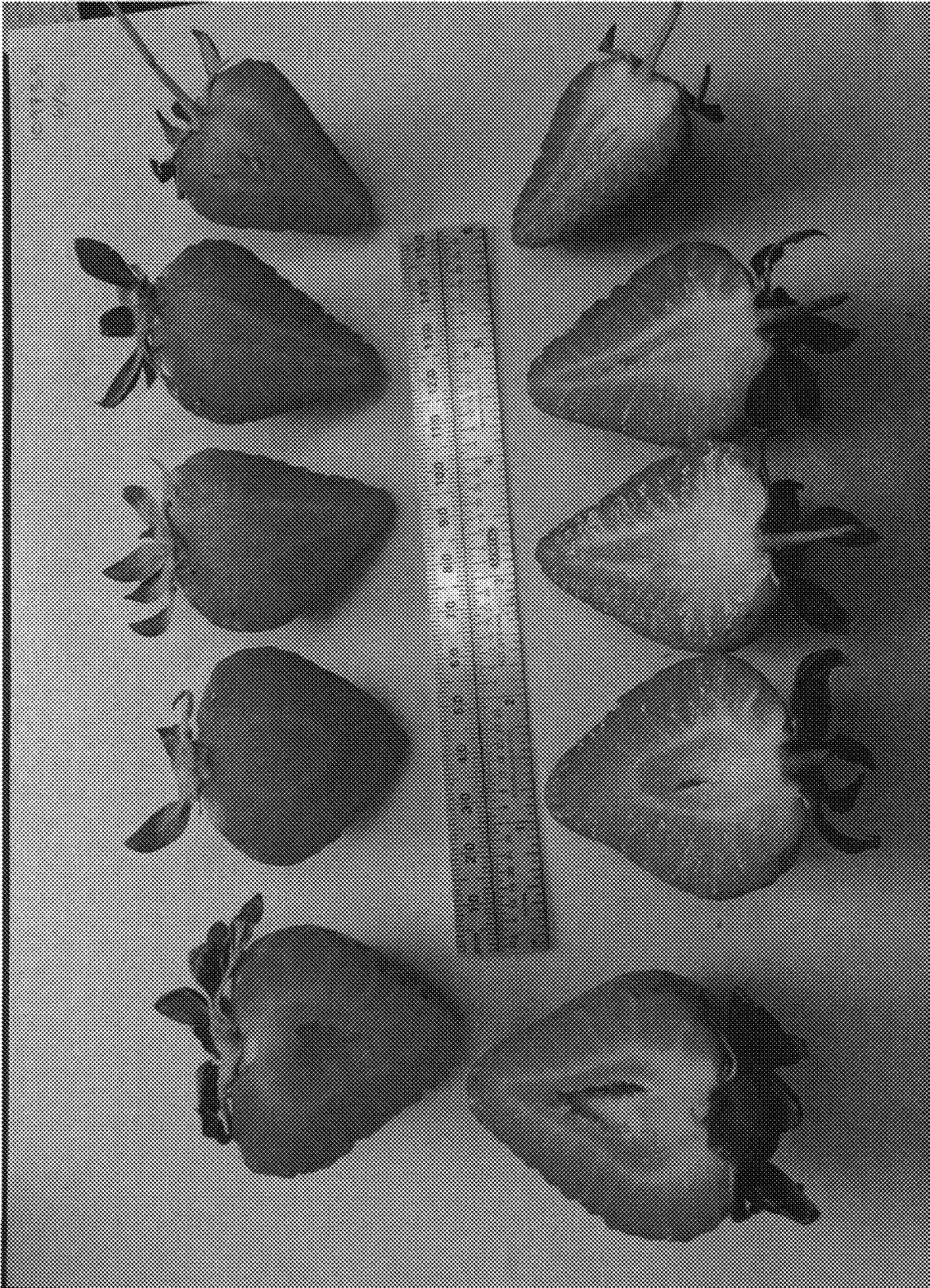


FIG. 2



FIG. 3A

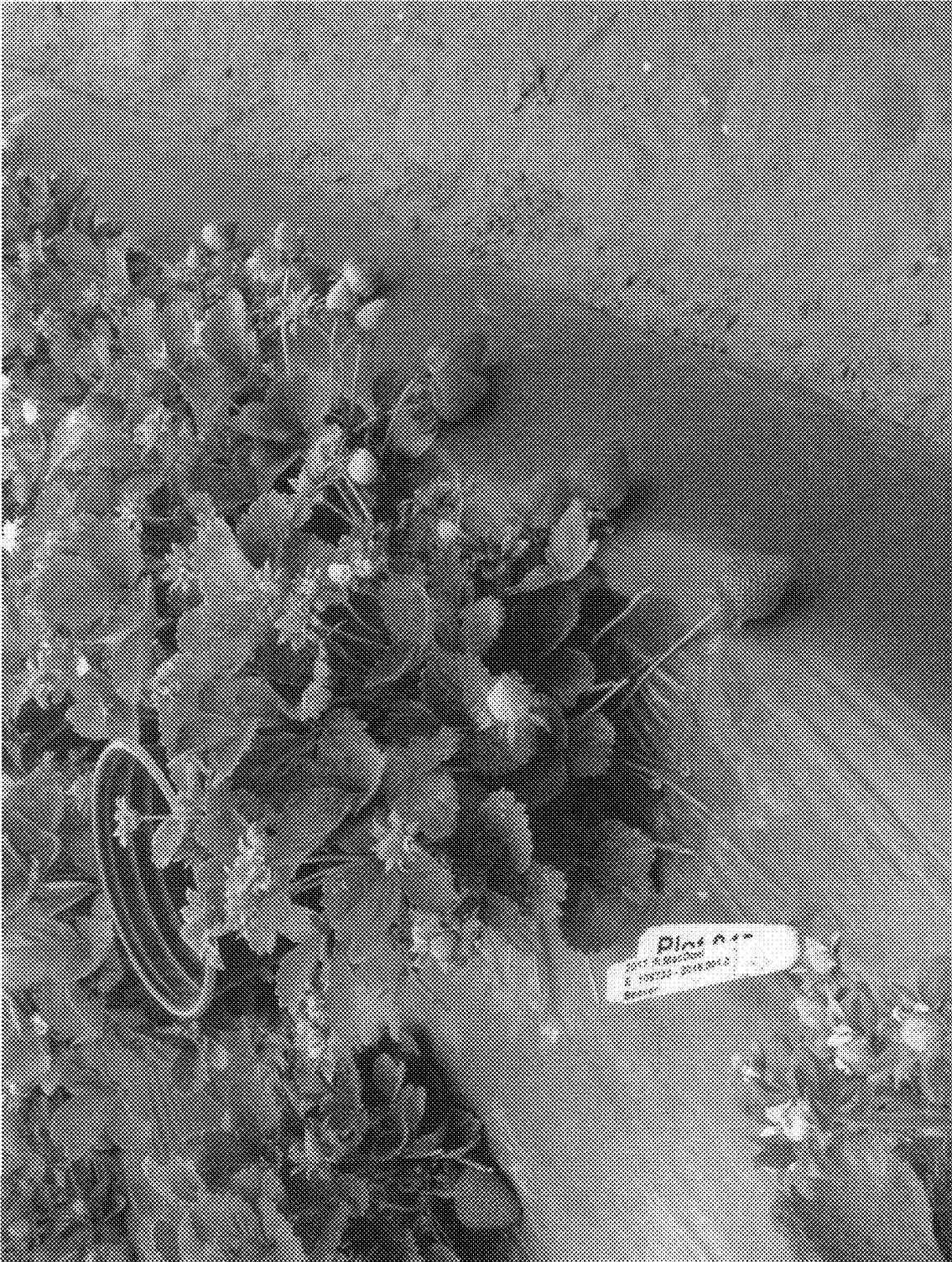


FIG. 3B

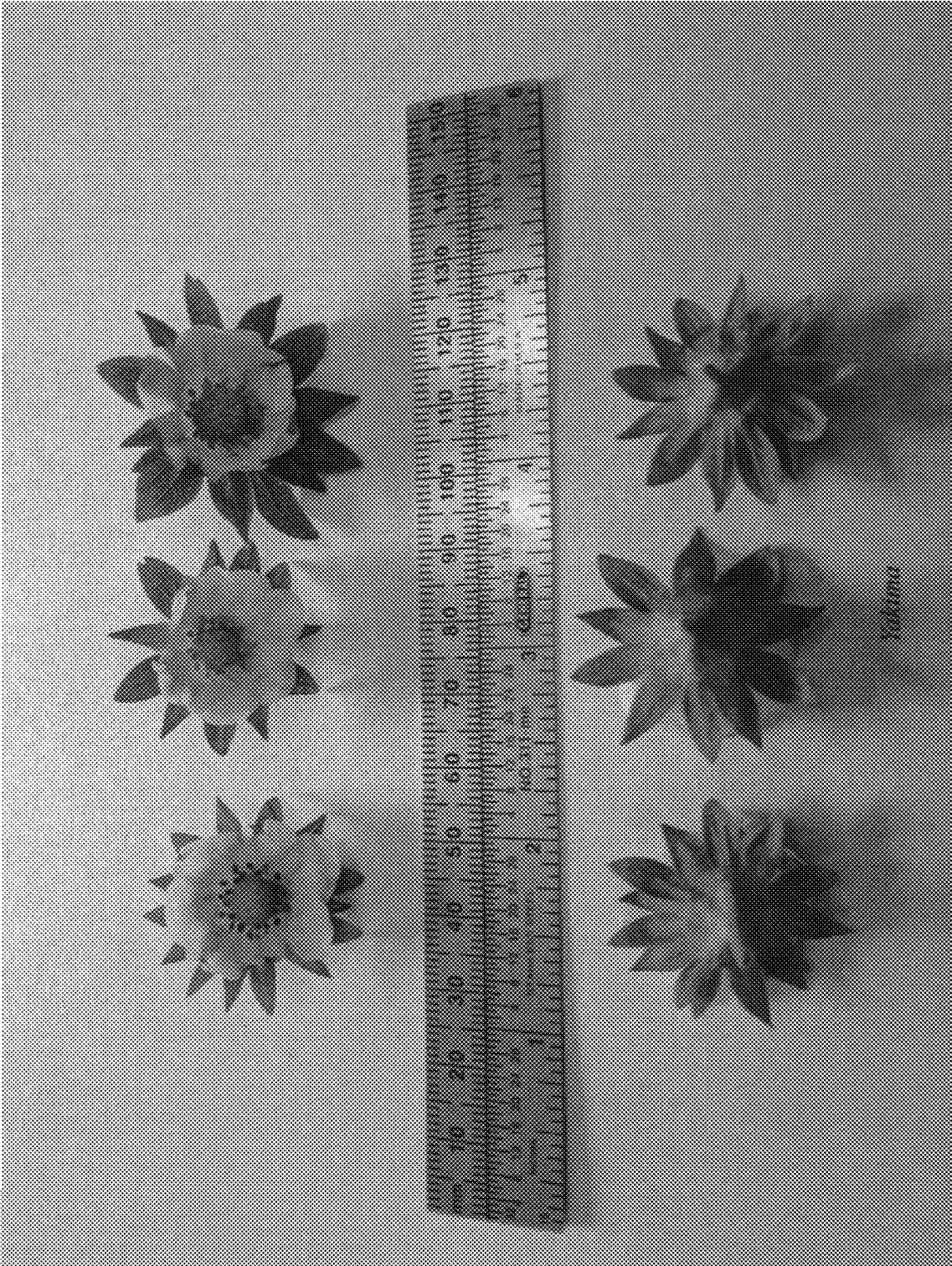


FIG. 4