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Takahashi

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(54) **NECTARINE TREE NAMED ‘SWEET REI’**

(50) Latin Name: *Prunus persica* (L.) Batsch var.
nucipersica (Suckow) C.K.
Schneid.

Varietal Denomination: ‘SWEET REI’

(71) Applicant: **Chukichi Takahashi**, Date (JP)

(72) Inventor: **Chukichi Takahashi**, Date (JP)

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Primary Examiner — Kent L Bell

(74) *Attorney, Agent, or Firm* — Oblon, McClelland,
Maier & Neustadt, L.L.P.

(57) **ABSTRACT**

A new and distinct variety of white nectarine tree (*Prunus persica* (L.) Batsch var. *nucipersica* (Suckow) C.K. Schneid.) denominated ‘SWEET REI’, characterized by being late-maturing, having high Brix and relatively low acidity white flesh, excellent eating quality fruit, being easy to eat because of its freestone fruit, having an attractive dark-red fruit skin color, and no deterioration of eating quality of fruit even after storage for two weeks in a refrigerator.

21 Drawing Sheets

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Botanical classification: *Prunus persica* (L.) Batsch var. *nucipersica* (Suckow) C.K. Schneid.

Variety denomination: ‘SWEET REI’.

CROSS-REFERENCE TO RELATED APPLICATION

This application claims priority to Japanese Plant Variety Registration Application No. 33273 filed on Jul. 23, 2018, which is incorporated by reference herein as if set forth in its entirety.

BACKGROUND OF THE VARIETY

The present invention relates to a new and distinct variety of white nectarine tree (*Prunus persica* (L.) Batsch var. *nucipersica* (Suckow) C.K. Schneid.), which has been given the variety denomination ‘SWEET REI’. This novel variety was found by natural hybridization of the seed parent variety ‘SWEET VENUS’ (Japanese Plant Variety Registration No. 12301, registered on Nov. 8, 2004), in Tsukidate-cho, Date-city, Fukushima-prefecture, Japan.

This new white nectarine produces fruits, which are late-maturing, having high brix and relatively low acidity white flesh as well as attractive dark-red skin color, excellent eating quality, and are easy to eat because of its freestone flesh.

ORIGIN OF THE VARIETY

As stated above, the new variety of white nectarine ‘SWEET REI’ was obtained from natural hybridization of

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‘SWEET VENUS’ (Japanese Plant Variety Registration No. 12301, registered on Nov. 8, 2004), the seed parent of the present variety, in Tsukidate-cho, Date-city, Fukushima-prefecture, Japan, where it was tested.

5 In 2011, ‘SWEET VENUS’ was open-pollinated in the inventor’s orchard in Tsukidate-cho, Date-city, Fukushima-prefecture, Japan, and 10 of its natural hybrid seeds were seeded and the resultant seedlings were grown at the orchard.

10 Five (5) germinated seedlings of the above-obtained seedlings were further grown, and the first fruits were observed in 2013. Among the 5 trees from the germinated seedlings, the inventor selected one tree as a mother tree because of its characteristics as having high brix (sweet) and relatively low acidity, excellent eating quality, and easy to eat fruits. In 15 2014, the second generation of the mother tree was grown by asexual reproduction by grafting onto a wild white-flowered peach tree rootstock (non-patented, being indigenous on a mountain in Tsukidate-cho, Date-city, Fukushima-prefecture, Japan), and the observation of the characteristics of the second generation tree was started. The asexually propagated tree remained true to the original tree (i.e., mother tree), and all characteristics of the tree and fruits of the mother tree were transmitted. In 2017, this new variety was denominated by the inventor as ‘SWEET REI’.

25 The above-identified mother tree and the second generation tree of ‘SWEET REI’ have been maintained in Tsukidate-cho, Date-city, Fukushima-prefecture, Japan.

SUMMARY OF THE VARIETY

30 The new white nectarine variety ‘SWEET REI’ exhibits outstanding and distinguishing characteristics when grown under normal nectarine cultivation practices, including:

- (1) high brix (Brix 15 to 17 degree), relatively low acidity, and white flesh fruit;
- (2) excellent eating quality fruit;
- (3) being easy to eat because of its freestone fruit;
- (4) attractive dark-red fruit skin color; and
- (5) no deterioration of eating quality of fruit even after storage for two weeks in a refrigerator.

The fruits of 'SWEET REI' is suitable for fruit gifts, such as fruit gift boxes or fruit baskets, since it has attractive dark-red skin color as well as excellent eating quality, and is easy to eat because of its freestone flesh.

In addition, since the fruit of 'SWEET REI' has high brix and relatively low acidity, it can also be used for preparation of processed fruits, such as fruit cake, fruit jelly, canned fruits, fruit juice and fruit jam.

For reliable description, the characteristics of 'SWEET REI' are described as compared to those of the yellow nectarine variety 'SWEET VENUS' (the seed parent of the present variety, *Prunus persica* (L.) Batsch var. *nucipersica* (Suckow) C.K. Schneid.) and the representative variety of white peach, 'Kawanakajima Hakuto' (*Prunus persica* (L.) Batsch), its the attached Table 1 (Table of Characteristics).

As stated herein below and described in the attached Table of Characteristics, 'SWEET REI' has apparently different characteristics from those of the variety 'SWEET VENUS' and the variety 'Kawanakajima Hakuto'.

'SWEET REI' clearly differs from its seed parent variety 'SWEET VENUS', which has yellow, relatively firm and clingstone fruits, in that 'SWEET REI' has dark-red fruit skin color, white fruit flesh, and relatively soft, freestone and easy to eat fruit. Moreover, since 'SWEET REI' needs not being grown under plastic cover, its cultivation is easier than that of 'SWEET VENUS', which needs to be plastic covered.

In addition, 'SWEET REI' clearly differs from the representative variety of white peach 'Kawanakajima Hakuto', which has Brix 13 degree, in that 'SWEET REI' has higher Brix (Brix 15 to 17 degree).

'SWEET REI' is in fact outstanding and readily identified as being such.

It should be noted that the plant age of all the plants of 'SWEET REI', which were observed and photographed for botanical description, was 3 years (except for the 7-year-old mother tree of 'SWEET REI' in FIG. 21).

DESCRIPTION OF THE DRAWINGS

This new white nectarine variety is illustrated by the accompanying digital color photographs, depicting defining characteristics of the plant by the best possible color photography. Colors of foliage, flowers, fruits and other plant parts may vary from year to year depending on, among other factors, nectarine cultivation practices, light conditions, air temperature, soil fertility, etc.

FIG. 1 illustrates a whole fruit of 'SWEET REI' fruiting on a tree (photographed date: Sep. 1, 2017; photographed location: Tsukidate-cho, Date-city, Fukushima-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 2 illustrates apexes of 6 fruits of 'SWEET REI' (photographed date: Aug. 31, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 3 illustrates lateral view of 6 fruits of 'SWEET REI' (photographed date: Aug. 31, 2017; photographed location:

Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 4 illustrates stalk cavity of 6 fruits of 'SWEET REI' (photographed date: Aug. 31, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 5 illustrates 4 fruits of 'SWEET REI'; 2 bagged fruits (left) and 2 not bagged fruits (right) (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 6 illustrates 4 fruit of 'SWEET REI' (left), 'SWEET VENUS' (middle) and 'Kawanakajima Hakuto' (right), respectively (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI', 'SWEET VENUS' and 'Kawanakajima Hakuto': 3 years).

FIG. 7 illustrates longitudinal section view of fruits of 'SWEET REI' (photographed date: Aug. 31, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 8 illustrates cross section view of 4 fruits of 'SWEET REI' (left), 'SWEET VENUS' (middle) and 'Kawanakajima Hakuto' (right), respectively (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI', 'SWEET VENUS' and 'Kawanakajima Hakuto': 3 years).

FIG. 9 illustrates 10 flowers of 'SWEET REI' (photographed date: Apr. 10, 2018; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 10 illustrates 10 flowers of 'SWEET REI' (5 flowers before fertilization (upper) and 5 flowers with fertilized ovule (lower)) (photographed date: Apr. 10, 2018; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 11 illustrates 4 flowers of 'SWEET REI' (left), 'SWEET VENUS' (middle) and 'Kawanakajima Hakuto' (right), respectively (2 flowers before fertilization (upper) and 2 flowers with fertilized ovule (lower), respectively) (photographed date: Apr. 10, 2018; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI', 'SWEET VENUS' and 'Kawanakajima Hakuto': 3 years).

FIG. 12 illustrates a close-up longitudinal section view of a flower of 'SWEET REI' (photographed date: Apr. 10, 2018; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 13 illustrates a close-up longitudinal section view of a flower of 'SWEET VENUS' (photographed date: Apr. 10, 2018; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 14 illustrates a close-up longitudinal section view of a flower of 'Kawanakajima Hakuto' (photographed date: Apr. 10, 2018; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 15 illustrates 10 flower petals of 'SWEET REI' (upper), 'SWEET VENUS' (middle) and 'Kawanakajima Hakuto' (bottom), respectively (photographed date: Apr. 10, 2018; photographed location: Higashine-city, Yamagata-

prefecture, Japan; and the age of photographed 'SWEET REI', 'SWEET VENUS' and 'Kawanakajima Hakuto': 3 years).

FIG. 16 illustrates a branch of 'SWEET REI' with a number of leaves (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 17 illustrates a branch of 'SWEET VENUS' with a number of leaves (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET VENUS': 3 years).

FIG. 18 illustrates a branch of 'Kawanakajima Hakuto' with a number of leaves (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'Kawanakajima Hakuto': 3 years).

FIG. 19 illustrates 10 leaves of 'SWEET REI' (5 upper surface of leaves (upper) and 5 lower surface of leaves (lower)) (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI': 3 years).

FIG. 20 illustrates 4 leaves of 'SWEET REI' (left), 'SWEET VENUS' (middle) and 'Kawanakajima Hakuto' (right), respectively (2 upper surface of leaves (left), and 2 lower surface of leaves (right), respectively) (photographed date: Sep. 1, 2017; photographed location: Higashine-city, Yamagata-prefecture, Japan; and the age of photographed 'SWEET REI', 'SWEET VENUS' and 'Kawanakajima Hakuto': 3 years).

FIG. 21 illustrates a whole mother tree of 'SWEET REI' (photographed date: Sep. 1, 2017; photographed location: Tsukidate-cho, Date-city, Fukushima-prefecture, Japan; and the age of photographed 'SWEET REI': 7 years).

BOTANICAL DESCRIPTION OF THE VARIETY

The following is a detailed botanical description of the new variety of white nectarine, its tree, flower, foliage and fruit, as based on observations of 3 year old specimens grown in Tsukidate-cho, Date-city, Fukushima-prefecture, Japan, with color in accordance with The R.H.S. Colour Chart 2015.

1. Tree:

Size.—Medium (3 year old tree: Height: 5 to 3 m; Width: 3.5 to 4 m).

Vigor.—Medium vigorous.

Growth habit.—Semi-upright.

Tree shape.—Flared shape.

Hardiness.—USDA hardiness zone 8a.

Disease pest resistance/susceptibility.—Resistance to *Xanthomonas arboricola* pv. *pruni*.

Trunk diameter (at 50 cm height from ground).—18.9 cm.

Bark texture.—Smooth (8 year old tree).

Bark color.—Gray (RHS Code: 201D).

Trunk lenticel number.—0.7/cm².

Trunk lenticel shape.—Long ellipse.

Trunk lenticel height.—1.5 mm.

Trunk lenticel width.—3.0 mm.

Trunk lenticel color.—Gray-brown (RHS Code: N119C).

2. Shoot:

Shoot length.—22.0 cm.

Shoot diameter.—0.3 cm.

Shoot texture.—Smooth.

Shoot internode length.—2.4 cm.

Shoot color.—Green (RHS Code: 142C).

3. Leaves:

Time of leaf bud burst.—Medium, around March 25 (3 year old tree).

Leaf blade shape.—Lanceolate.

Leaf blade length.—Average length 18.61 cm.

Leaf blade width.—Average width 3.71 cm.

Leaf ratio of length/width.—Large (average 5.02).

Leaf blade shape in cross section.—Flat.

Leaf apex form.—Attenuate-acuminate.

Leaf margin.—Sawtoothed.

Recurvature of leaf blade apex.—Absent.

Shape (angle) at base of leaf blade.—Acute.

Leaf texture.—Smooth and glabrous on both surfaces.

Color of upper surface of mature leaf blade.—Dark Green (RHS Code: 136A).

Color of lower surface of mature leaf blade.—Strong Yellow Green (RHS Code: 144A).

Leaf venation pattern.—Pinnately veined, and having concavo-convex veins on lower surface of leaves.

Red mid-vein on lower surface of mature leaf blade.—Absent.

Petiole length.—Average length 1.34 cm.

Petiole diameter.—2 mm.

Petiole texture.—Smooth.

Color of petiole.—Green (RHS Code: 142C).

Nectaries on petiole of leaf.—Present.

Shape of nectaries on petiole of leaf.—Rounded and reniform.

Predominant number of nectaries on petiole of leaf.—More than two.

4. Flower buds:

Density of flower buds on the first-year flowering shoot.—Dense.

General distribution of flower buds on the first-year flowering shoot.—Distributed in groups of two or more.

Flower bud shape.—Conic in form with a round tip.

Flower bud length.—7.3 mm.

Flower bud diameter.—3.9 mm.

Flower bud color.—Light Greenish Grey (RHS Code: 188C).

5. Flowers:

Flower type.—Showy.

Flower height.—26 mm.

Flower diameter.—35 mm.

Flower fragrance.—Faint.

Calyx color of inner side (opened flower, before falling of petals).—Strong Yellowish Green (RHS Code: N144A).

Corolla: predominant color (inner side).—Light Purplish pink (RHS Code: 65B).

Petal shape.—Rounded shaped.

Petal size.—Average size 3.27 cm².

Petal length.—17 mm.

Petal width.—15 mm.

Petal number per flower.—Five.

Petal apex.—Rounded and curved.

Petal margin.—Undulating like a wave.

Petal base.—Acute.

Petal texture.—Smooth and soft (both surfaces).

Sepal number per flower.—Five.

Sepal length.—8 mm.

- Sepal width*.—4 mm.
Sepal shape.—Conic with a round tip.
Sepal apex.—Rounded.
Sepal margin.—Smooth.
Color of upper surface of sepal.—Red Purple (RHS Code: 59C).
Color of lower surface of sepal.—Green (RHS Code: 141C).
Time of beginning of flowering.—Medium, around April 12 (3 year old tree).
Duration of flowering.—Medium, around April 12 to around April 24 (3 year old tree).
6. Reproductive organs:
- Stamens position compared to petals*.—Below.
Stamen number.—41.
Stigma position compared to anthers.—Above.
Anther length.—1 mm.
Color of anther.—Yellow Orange (RHS Code: 20A).
Filament length.—12 mm.
Color of filament.—Red Purple (RHS Code: 68B).
Pistil number.—One (1).
Pistil length.—19 mm.
Pollen in anthers.—Present.
Pollen amount.—Abundant.
Color of pollen.—Yellow Orange (RHS Code: 22B).
Pubescence on ovary.—Absent.
7. Fruit:
- Fruit size (weight)*.—Medium, Average weight: 208.7 g.
Fruit shape in ventral view.—Oblate.
Fruit shape of pistil end.—Weakly depressed.
Fruit: symmetry viewed from pistil end.—Asymmetric.
Fruit cheek diameter.—81.0 to 85.0 mm.
Fruit axial diameter.—10.0 to 72.0 mm.
Fruit: prominence of suture.—Medium.
Fruit: depth of stalk cavity.—Medium, Average depth: 1.3 cm.
Fruit: width of stalk cavity.—20 mm.
Fruit: ground color of fruit skin.—Light Yellow Green (RHS Code: 54D).
Presence or absence of over color of fruit skin.—Present.
Fruit: hue of over color of fruit skin.—Dark Red (RHS Code: 59A).
Fruit: pattern of over color of fruit skin.—Mottled.
Fruit: extent of over color of fruit skin (bagged fruit).—100%.
Fruit: extent of over color of fruit skin (non-bagged fruit).—50%.
Pubescence on fruit.—Absent.
Fruit: thickness of skin.—Thin.
Fruit: adherence of skin to flesh.—Strong.
Fruit: firmness of flesh.—Medium.
Fruit: ground color of fruit flesh.—Yellowish White (RHS Code: 155B).
Fruit: anthocyanin coloration directly under fruit skin.—Absent or very weakly expressed.
Color of anthocyanin coloration directly under fruit skin, very weakly expressed.—Red Purple (RHS Code: 58B).
Fruit: anthocyanin coloration of fruit flesh.—Absent or very weakly expressed.
Color of anthocyanin coloration of fruit flesh, when very weakly expressed.—Red Purple (RHS Code: N66C).

- Fruit: anthocyanin coloration around stone*.—Strongly expressed.
Color of anthocyanin coloration around stone.—Red Purple (RHS Code: N57B).
Fruit: texture of fruit flesh.—Not fibrous.
Fruit sweetness.—High, Brix 15 to 17 degree.
Fruit acidity.—Medium.
Fruit taste.—Sweet, high level of sugars and relatively low acidity.
Fruit eating quality.—Very good and easy to eat.
Time of maturity for consumption.—Late, around late August.
Tendency to crack.—Present.
Tendency to preharvest drop.—Weak.
Date of first picking.—Around August 25.
Date of last picking.—Around September 5.
Productivity.—Around 600 fruits are produced per tree per season (8 year old tree).
8. Stone:
- Stone: size compared to fruit (ratio weight of stone/ weight of fruit)*. Small.
Stone length.—34 mm.
Stone width.—22 mm.
Stone diameter.—27 mm.
Stone shape in lateral view.—Obovate.
Stone apex shape.—Short, pointed.
Stone base shape.—Straight.
Stone: intensity of brown color.—Dark.
Stone: relief of surface.—Pits and grooves.
Stone: tendency of splitting (at peak harvest).—Medium.
Stone: presence or absence of adherence to fruit flesh.—Absent.
Stone: degree of adherence to flesh.—Weak.
Stone cavity: length.—23 mm.
Stone cavity: diameter.—13 mm.
Kernel length.—17 mm.
Kernel width.—12 mm.
Kernel thickness.—5 mm.
Kernel shape.—Long elliptic.
Color of kernel.—Grayed Orange (RHS Code: 172C).
9. Others:
- Keeping quality*.—Remarkable. Fruit of ‘SWEET REI’ have a slow maturation and a long shelf life both on the tree after growth completion (before harvesting) and after harvesting without alteration. After harvest, fruits are well preserved around 2 weeks, at around 4.0 degree Celsius.
Shipping quality.—Considered very good. The fruits of ‘SWEET REI’ showed minimal bruising of the flesh or skin damage after being subjected to normal harvesting and packing procedures. Its resistance to handling during harvest and packing and its long shelf life without alteration after harvest easily permit around 2 weeks-shipping, at around 4.0 degrees Celsius.
- The comparison of characteristics of the present variety ‘SWEET REI’ with the comparator varieties ‘SWEET VENUS’ and ‘Kawanakajimahakuto’ is summarized in Table 1 below.

TABLE 1

(Table of Characteristics)			
Character No.	UPOV No.	Symbol	Characteristics
1	10	QNG	Tree: size
2	2	QN	Tree: vigor
3	3(*)	QN	Tree: habit
4	4	QN	Flowering shoot: thickness (excluding brindilles)
5	5	QN	Flowering shoot: length of internodes (excluding brindilles)
6	6(*)	QL	Flowering shoot: anthocyanin coloration (excluding brindilles, side away from sun)
7	7(*)	QN	Flowering shoot: intensity of anthocyanin coloration (excluding brindilles, side away from sun)
8	8(*)	ON	Flowering shoot: density of flower buds
9	9	QL	Flowering shoot: general distribution of flower buds (excluding brindilles, side away from sun)
10	10(*)	QLG	Flower type
11	11(*)	PQ	Calyx color of inner side (opened flower, before falling of petals)
12	12(*)	PQ	Corolla: predominant color (inner side)
13	13(*)	PQ	Petal: shape
14	14(*)	QN	Petal: size
15	15(*)	QL	Petals: number
16	16	QN	Stamens: position compared to petals
17	17(*)	QN	Stigma: position compared to anthers
18	18(*)	QL	Anthers: pollen
19	19(*)	QL	Ovary: pubescence
21	21(*)	QN	Leaf blade: length
22	22(*)	QN	Leaf blade: width
23	23(*)	QN	Leaf blade, ratio length/width
24	24	PQ	Leaf blade: shape in cross section
25	25	QL	Leaf blade: recurvature of apex
26	26	PQ	Leaf blade angle at base
28	28	PQ	Leaf blade: color
29		QL	Leaf: red mid-vein on the lower side
30	29	QN	Petiole: length
31	30(*)	QLG	Petiole: nectaries
32	31(*)	PG(*)	Petiole: shape of nectaries
33	32	QL	Petiole: predominant number of nectaries
34	33(*)	QN	Fruit: size
35	34(*)	PQ(+)	Fruit: shape (in ventral view)
36(*)	35	PG	Fruit: shape of pistil end
37	36	QL(+)	Fruit: symmetry (viewed from pistil end)
38	37	QN	Fruit: prominence of suture
39	38	QN(+)	Fruit: depth of stalk cavity
40	39	QN	Fruit: width of stalk cavity
41	40(*)	PQ	Fruit: groundcolor
42	41	QL	Fruit: over color
43	42	PQ	Fruit: hue of over color
44	43(*)	PQ	Fruit: pattern of over color
45	44(*)	QN	Fruit: extent of over color
46	45(*)	QIG	Fruit: pubescence
48	47	QN	Fruit: thickness of skin
49	48	QN	Fruit: adherence of skin to flesh
50	49(*)	QN	Fruit: firmness of flesh
51	50(*)	PQG	Fruit: ground color of flesh
52	51(*)	QN	Fruit: anthocyanin coloration directly under skin
53	52(*)	QN	Fruit: anthocyanin coloration of flesh
54	53(*)	QN	Fruit: anthocyanin coloration around stone
55	54	QL	Fruit: texture of the

TABLE 1-continued

(Table of Characteristics)			
Character No.	Definition	Method	Grade
56	55	QN	flesh
57	56	QN	Fruit: sweetness
58	57(*)	QN	Fruit: acidity
59	58(*)	PQ(*)	Stone: size compared to fruit
60	59	ON	Stone: shape in lateral view
61	60	PC(*)	Stone: intensity of brown color
62	61	QN	Stone: relief of surface
63	62(*)	QLG	Stone: tendency of splitting
64	63	ON	Stone: adherence to flesh
65	64	QN	Stone: degree of adherence to flesh
66	65(*)	QNG	Time of leaf bud burst
67	66(*)	QN	Time of beginning of flowering
68	67(*)	QNG	Duration of flowering
69	68	QN	Time of maturity for consumption
70	68	QN	Tendency to preharvest drop
71	68	QN	Tendency to preharvest drop
72	68	QN	Tendency to preharvest drop
73	68	QN	Tendency to preharvest drop
74	68	QN	Tendency to preharvest drop
75	68	QN	Tendency to preharvest drop
76	68	QN	Tendency to preharvest drop
77	68	QN	Tendency to preharvest drop
78	68	QN	Tendency to preharvest drop
79	68	QN	Tendency to preharvest drop
80	68	QN	Tendency to preharvest drop
81	68	QN	Tendency to preharvest drop
82	68	QN	Tendency to preharvest drop
83	68	QN	Tendency to preharvest drop
84	68	QN	Tendency to preharvest drop
85	68	QN	Tendency to preharvest drop
86	68	QN	Tendency to preharvest drop
87	68	QN	Tendency to preharvest drop
88	68	QN	Tendency to preharvest drop
89	68	QN	Tendency to preharvest drop
90	68	QN	Tendency to preharvest drop
91	68	QN	Tendency to preharvest drop
92	68	QN	Tendency to preharvest drop
93	68	QN	Tendency to preharvest drop
94	68	QN	Tendency to preharvest drop
95	68	QN	Tendency to preharvest drop
96	68	QN	Tendency to preharvest drop
97	68	QN	Tendency to preharvest drop
98	68	QN	Tendency to preharvest drop
99	68	QN	Tendency to preharvest drop
100	68	QN	Tendency to preharvest drop
101	68	QN	Tendency to preharvest drop
102	68	QN	Tendency to preharvest drop
103	68	QN	Tendency to preharvest drop
104	68	QN	Tendency to preharvest drop
105	68	QN	Tendency to preharvest drop
106	68	QN	Tendency to preharvest drop
107	68	QN	Tendency to preharvest drop
108	68	QN	Tendency to preharvest drop
109	68	QN	Tendency to preharvest drop
110	68	QN	Tendency to preharvest drop
111	68	QN	Tendency to preharvest drop
112	68	QN	Tendency to preharvest drop
113	68	QN	Tendency to preharvest drop
114	68	QN	Tendency to preharvest drop
115	68	QN	Tendency to preharvest drop
116	68	QN	Tendency to preharvest drop
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232	68	QN	Tendency to preharvest drop
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270	68	QN	Tendency to preharvest drop
271	68	QN	Tendency to preharvest drop
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274	68	QN	Tendency to preharvest drop
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278	68	QN	Tendency to preharvest drop
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303	68	QN	Tendency to preharvest drop
304	68	QN	Tendency to preharvest drop
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320	68	QN	Tendency to preharvest drop
321	68	QN	Tendency to preharvest drop
322	68	QN	Tendency to preharvest drop
323	68	QN	Tendency to preharvest drop
324	68	QN	Tendency to preharvest drop
325	68	QN	Tendency to preharvest drop
326	68	QN	Tendency to preharvest drop
327	68	QN	Tendency to preharvest drop

TABLE 1-continued

(Table of Characteristics)	
side of petal in flowering time	2 3 4 5 6 7
13 Shape of petal in flowering time	Observation 1 2 3
14 Size of petal in flowering time	Measurement 1 cm 3 5 7 9
15 Number of petals per flower in flowering time	Measurement 1 2
16 Relative position of stamens to petals in flowering time	Observation 1 2 3
17 Relative position of stigma to anthers in flowering time	Observation 1 2 3
18 Presence or absence of pollen in flowering time	Observation 1 9
19 Presence or absence of pubescence on ovary in flowering time	Observation 1 9
21 Longitudinal length of mature leaf on center part of first-year shoot (excluding petiole)	Measurement 3 cm 5 7
22 Maximum width of mature leaf on center part of first-year shoot	Measurement 3 cm 5 7
23 Ratio of length/maximum width of mature leaf on center part of first-year shoot	Measurement 3 5 7
24 Shape by cross-section of center part of mature leaf on center part of first-year shoot	Observation 1 2 3
25 Recurvature of leaf blade apex of mature leaf on center part of first-year shoot	Observation 1 9
26 Shape of mature leaf base on center part of first-year shoot	Observation 1 2 3
28 Color of mature leaf on center part of first-year shoot	Observation 1 2 3
29 Red mid-vein on the lower side of mature leaf on center part of first-year shoot	Observation 1 9
30 Length of petiole of mature leaf on center part of first-year shoot	Measurement 3 mm 5 7
31 Presence or absence of nectaries on petiole immediately after completion of extension of petiole	Observation 1 9
32 Shape of nectaries on petiole	Observation 1 2
33 Predominant number of nectaries on petiole	Measurement 1 2
34 Weight of mature fruit	Measurement 1 g 3 5 7 9
35 Shape of mature fruit viewed from frontside (suture side)	Observation 1 2 3 4 5
36(*) Shape at fruit apex of mature fruit	Observation 1 2 3 4 5
37 Symmetry of mature fruit, viewed from fruit apex	Observation 1 2

TABLE 1-continued

(Table of Characteristics)		
38 Depth of suture at equatorial part of mature fruit	Observation 3 5 7	
39 Depth of stalk cavity of mature fruit	Measurement 3 cm 5 7	
40 Width of stalk cavity of mature fruit	Measurement 3 cm 5 7	
41 Ground color of fruit skin of mature fruit	Observation 1 2 3 4 5 6	
15	7 8 9 10	
42 Presence or absence of over color of fruit skin of mature fruit	Observation 1 9	
43 Hue of over color of fruit skin of mature fruit	Observation 1 2 3 4 5 6	
25	7 8 9	
44 Pattern of over color of fruit skin of mature fruit	Observation 1 2 3 4	
30	5 6 7 8 9	
45 Extent of over color on mature fruit	Observation 1 3 5 7 9	
46 Presence or absence of pubescence on surface of mature fruit	Observation 1 9	
35	48 Thickness of fruit skin of mature fruit	Measurement 3 mm 5 7
49 Adherence of fruit skin to fruit flesh	Observation 1 3 5 7 9	
40	50 Firmness of fruit flesh at equatorial part of mature fruit	Measurement 1 3 5 7 9
45	51 Ground color of fruit flesh of mature fruit	Observation 1 2 3 4 5 6 7 8
50	52 Intensity of anthocyanin coloration at immediately under fruit skin of mature fruit	Observation 1 2 3 5 7 8
55	53 Intensity of anthocyanin coloration in fruit flesh of mature fruit	Observation 1 2 3 5 7 8
54	54 Intensity of anthocyanin coloration around stone of mature fruit	Observation 1 2 3 5 7 8
55	55 Texture of fruit flesh at equatorial part of mature fruit	Observation 1 2
60	56 Degree of sweetness of fruit flesh at equatorial part of mature fruit	Measurement 3 5 7
57	57 Degree of acidity of fruit flesh at equatorial part of mature fruit	Measurement 3 5 7
65		7

TABLE 1-continued

TABLE 1-continued

(Table of Characteristics)			
58	Relative weight of stone to mature fruit (weight of stone whole weight of fruit)	Measurement	3
			5
			7
59	Shape in lateral view (non- suture side) of stone of mature fruit	Observation	1
			2
			3
			4
60	Intensity of brown color of stone of mature fruit	Observation	3
			5
			7
			10
61	Relief of surface of stone of mature fruit	Observation	1
			2
			3
			4
62	Tendency of splitting of stone of mature fruit	Measurement	1
			3
			5
			7
63	Presence or absence of adherence of stone (or free stone) to fruit flesh of mature fruit	Observation	1
			9
64	Degree of adherence of stone (or free stone) to fruit flesh of mature fruit	Observation	3
			5
65	Timing of first leaf bud burst	Observation	1
			3
			5
			7
66	Timing of beginning of sequential flowering	Observation	1
			3
			5
			7
67	Length of duration of flowering	Observation	3
			5
			7
68	Timing of maturity of fruit for consumption	Observation	1
			3
			5
			7
69	Tendency to preharvest drop	Observation	1
			3
			5
			7

(Table of Characteristics)			
5	long	bog	long
			very long
			absent
6	absent	present	present
			weak
			medium
			strong
7	strong	sparse	sparse
			medium
			dense
			isolated
8	dense	isolated	isolated
			in groups
			of two or more
			showy
9	showy	non showy	non showy
			greenish yellow
			strong yellowish green (RHS Code: N144A)
			white
10	white	very light pink	very light pink
			light purplish pink (RHSCode: 65B)
			medium pink
			dark pink
11	dark pink	violet pink	violet pink
			red
			narrow elliptic
			broad elliptic
12	broad elliptic	round	round
			very small
			small
			medium 3.27 cm
13	large	very large	very large
			five
			6 or more
			below
14	below	same level	same level
			above
			below
			same level
15	above	above	above
			below
			same level
			above
16	absent	absent	absent
			present
			absent
			present
17	present	short	short
			medium
			long 18.61 cm
			narrow
18	medium 3.71 cm	medium 3.94 cm	medium
			broad
			small
			medium 4.22 cm
19	large 5.02 cm	large	large
			concave
			flat
			convex
20	concave	convex	convex
			absent
			Present
			acute
21	acute	approximately	approximately
			right angle
			obtuse
			greenish yellow
22	dark green	green	green
			(RHS Code: 136A)
			purplish red
			absent
23	Present	Present	Present
			short
			medium 1.34 cm
			long
24	absent	absent	absent
			present
			round
			long
25	long	very long	very long
			absent
			present
			absent
26	present	present	present
			weak
			medium
			strong
27	strong	sparse	sparse
			medium
			dense
			isolated
28	isolated	in groups	in groups
			of two or more
			showy
			non showy
29	greenish yellow	greenish yellow	greenish yellow
			orange (RHS Code: 25A)
			white
			very light pink
30	light pink	light pink	light pink
			medium pink
			dark pink
			violet pink
31	violet pink	red	red
			narrow elliptic
			broad elliptic
			round
32	very small	very small	very small
			small
			medium 3.68 cm
			large
33	large	very large	very large
			five
			6 or more
			below
34	below	same level	same level
			above
			below
			same level
35	above	above	above
			below
			same level
			above
36	absent	absent	absent
			present
			absent
			present
37	present	short	short
			medium 16.61 cm
			long
			narrow
38	medium 18.61 cm	medium 16.61 cm	medium
			broad
			small
			medium 4.22 cm
39	large 5.02 cm	large	large
			concave
			flat
			convex
40	concave	convex	convex
			absent
			Present
			acute
41	acute	approximately	approximately
			right angle
			obtuse
			greenish yellow
42	dark green	green	green
			(RHS Code: 136A)
			purplish red
			absent
43	Present	Present	Present
			short
			medium 1.34 cm
			long
44	absent	absent	absent
			present
			round
			long
45	long	very long	very long
			absent
			present
			absent
46	present	present	present
			weak
			medium
			strong
47	strong	sparse	sparse
			medium
			dense
			isolated
48	isolated	in groups	in groups
			of two or more
			showy
			non showy
49	greenish yellow	greenish yellow	greenish yellow
			orange (RHS Code: 25A)
			white
			very light pink
50	light pink	light pink	light pink
			medium pink
			dark pink
			violet pink
51	violet pink	red	red
			narrow elliptic
			broad elliptic
			round
52	very small	very small	very small
			small
			medium 3.68 cm
			large
53	large	very large	very large
			five
			6 or more
			below
54	below	same level	same level
			above
			below
			same level
55	above	above	above
			below
			same level
			above
56	absent	absent	absent
			present
			absent
			present
57	present	short	short
			medium 16.61 cm
			long
			narrow
58	medium 18.61 cm	medium 16.61 cm	medium
			broad
			small
			medium 4.22 cm
59	large 5.02 cm	large	large
			concave
			flat
			convex
60	concave	convex	convex
			absent
			Present
			acute
61	acute	approximately	approximately
			right angle
			obtuse
			greenish yellow
62	dark green	green	green
			(RHS Code: 136A)
			purplish red
			absent
63	Present	Present	Present
			short
			medium 1.34 cm
			long
64	absent	absent	absent
			present
			round
			long
65	long	very long	very long
			absent
			present
			absent
66	present	present	present
			weak
			medium
			strong
67	strong	sparse	sparse
			medium
			dense
			isolated
68	isolated	in groups	in groups
			of two or more
			showy
			non showy
69	greenish yellow	greenish yellow	greenish yellow
			orange (RHS Code: 25A)
			white
			very light pink
70	light pink	light pink	light pink
			medium pink
			dark pink
			violet pink
71	violet pink	red	red
			narrow elliptic
			broad elliptic
			round
72	very small	very small	very small
			small
			medium 3.68 cm
			large
73	large	very large	very large
			five
			6 or more
			below
74	below	same level	same level
			above
			below
			same level
75	above	above	above
			below
			same level
			above
76	absent	absent	absent
			present
			absent
			present
77	present	short	short
			medium 16.61 cm
			long
			narrow
78	medium 18.61 cm	medium 16.61 cm	medium
			broad
			small
			medium 4.22 cm
79	large 5.02 cm	large	large
			concave
			flat
			convex
80	concave	convex	convex
			absent
			Present
			acute
81	acute	approximately	approximately
			right angle
			obtuse
			greenish yellow
82	dark green	green	green
			(RHS Code: 136A)
			purplish red
			absent
83	Present	Present	Present
			short
			medium 1.34 cm
			long
84	absent	absent	absent
			present
			round
			long
85	long	very long	very long
			absent
			present
			absent
86	present	present	present
			weak
			medium
			strong
87	strong	sparse	sparse
			medium
			dense
			isolated
88	isolated	in groups	in groups
			of two or more
			showy
			non showy
89	greenish yellow	greenish yellow	greenish yellow
			orange (RHS Code: 25A)
			white
			very light pink
90	light pink	light pink	light pink
			medium pink
			dark pink
			violet pink
91	violet pink	red	red
			narrow elliptic
			broad elliptic
			round
92	very small	very small	very small
			small
			medium 3.68 cm
			large
93	large	very large	very large
			five
			6 or more
			below
94	below	same level	same level
			above
			below
			same level
95	above	above	above
			below
			same level
			above
96	absent	absent	absent
			present
			absent
			present
97	present	short	short
			medium 16.61 cm
			long
			narrow
98	medium 18.61 cm	medium 16.61 cm	medium
			broad
			small
			medium 4.22 cm
99	large 5.02 cm	large	large
			concave
			flat
			convex
100	concave	convex	convex
			absent
			Present
			acute
101	acute	approximately	approximately
			right angle
			obtuse
			greenish yellow
102	dark green	green	green
			(RHS Code: 136A)
			purplish red
			absent
103	Present	Present	Present
			short
			medium 1.34 cm
			long
104	absent	absent	absent
			present
			round
			long
105	long	very long	very long
			absent
			present
			absent
106	present	present	present
			weak
			medium
			strong
107	strong	sparse	sparse
			medium
			dense
			isolated
108	isolated	in groups	in groups
			of two or more
			showy
			non showy
109	greenish yellow	greenish yellow	greenish yellow
			orange (RHS Code: 25A)
			white
			very light pink
110	light pink	light pink	light pink
			medium pink
			dark pink
			violet pink
111	violet pink	red	red
			narrow elliptic
			broad elliptic
			round
112	very small	very small	very small
			small
			medium 3.68 cm
			large
113	large	very large	very large
			five
			6 or more
			below
114	below	same level	same level
			above
			below
			same level
115	above	above	above
			below
			same level
			above
116	absent	absent	absent
			present
			absent
			present
117	present	short	short
			medium 16.61 cm
			long
			narrow
118	medium 18.61 cm	medium 16.61 cm	medium
			broad
			small
			medium 4.22 cm
119	large 5.02 cm	large	large
			concave
			flat
			convex
120	concave	convex	convex
			absent
			Present
			acute
121	acute	approximately	approximately
			right angle
			obtuse
			greenish yellow

TABLE 1-continued

TABLE 1-continued

(Table of Characteristics)

33	reniform two 3 or more	reniform two 3 or more	reniform two 3 or more	5
34	verysmal small medium 208.7 g large very large broad oblate oblate round ovate elliptic	very small small medium large 247.4 g very large broad oblate oblate round ovate elliptic	very small small medium large 235.7 g very large broad oblate oblate round ovate elliptic	10
35	prominently pointed weakly pointed flat weakly depressed strongly depressed	prominently pointed weakly pointed flat weakly depressed strongly depressed	prominently pointed weakly pointed flat weakly depressed strongly depressed	15
36(*)	asymmetric symmetric	asymmetric symmetric	asymmetric symmetric	54
37	weak medium strong	weak medium strong	weak medium strong	20
38	shallow medium 1.3 cm deep	shallow medium 1.3 cm deep	shallow medium 1.5 cm deep	55
39	narrow medium broad	narrow medium broad	narrow medium broad	56
40	green cream green greenish white cream white cream pink white greenish yellow cream yellow yellow orange yellow	green cream green greenish white cream white cream pink white greenish yellow cream yellow yellow orange yellow	green cream green greenish white cream white cream pink white greenish yellow cream yellow yellow orange yellow	25
41	absent present orange red pink pink red light red medium red dark red (RHS Code: 59A)	absent present orange red pink pink red light red medium red dark red	absent present orange red pink pink red light red medium red dark red	57
42	solid flush striped mottled marbled	solid flush striped mottled marbled	solid flush striped mottled marbled	58
43	absent or very small small medium large very large	absent or very small small medium large very large	absent or very small small medium large very large	59
44	absent present thin medium thick	absent present thin medium thick	absent present thin medium thick	60
45	absent or very weak weak medium strong very strong	absent or very weak weak medium strong very strong	absent or very weak weak medium strong very strong	61
46	very soft soft medium firm very firm	very soft soft medium firm very firm	very soft soft medium firm very firm	62
47	greenish white white yellowish white (RHS Code: 155B)	greenish white white cream white	greenish white white cream white (RHS Code: 40)	63

(Table of Characteristics)

light yellow yellow	light yellow yellow (RHS Code: 23A)	light yellow yellow
orange yellow orange red	orange yellow orange red	orange yellow orange red
absent or very weakly expressed (RHS Code: 588)	absent or very weakly expressed	absent or very weakly expressed
weakly expressed strongly expressed	weakly expressed strongly expressed	weakly expressed strongly expressed
absent or very weakly expressed (RHS Code: N66C)	absent or very weakly expressed	absent or very weakly expressed
weakly expressed strongly expressed	weakly expressed strongly expressed	weakly expressed strongly expressed
absent or very weakly expressed strongly expressed	absent or very weakly expressed strongly expressed	absent or very weakly expressed strongly expressed
not fibrous fibrous	not fibrous fibrous	not fibrous fibrous
low medium high	low medium high	low medium high
low medium high	low medium high	low medium high
small medium large	small medium large	small medium large
oblate round elliptic obovate	oblate round elliptic obovate	oblate round elliptic obovate
light medium	light medium (RHS Code: N170B)	light medium
dark (RHS Code: 185B)	dark	dark
small pits large pits grooves	small pits large pits grooves	small pits large pits grooves
pits and grooves absent or very low low medium high	pits and grooves absent or very low low medium high	pits and grooves absent or very low low medium high
absent Present	absent Present	absent Present
weak medium strong	weak medium strong	weak medium strong
very early early	very early early	very early early
medium around March 25	medium around March 19	medium around March 19
late very late very early	late very late very early	late very late very early
early medium late	early medium late	early medium late
very late short medium 10 days long	very late short medium 10 days long	very late short medium 10 days long
very early early medium	very early early medium	very early early medium
late August 25 to September 5	late August 28 to September 7	late August 20 to September 30
very late	very late	very late

TABLE 1-continued

(Table of Characteristics)			
69	absent or very weak	absent or very weak	absent or very weak
	weak	weak	weak
	medium	medium	medium
	strong	strong	strong
	very strong	very strong	very strong

¶ The boxed words (such as "medium", "absent" and "very late") under each cultivar name indicate the properties of the respective cultivars

10

What is claimed is:

1. A new and distinct variety of white nectarine tree (*Prunus persica* (L.) Batsch var. *nucipersica* (Suckow) C.K. Schneid.) denominated 'SWEET REI', as illustrated and described herein.

* * * * *

Fig. 1



Fig. 2



The variety for application for registration: C-21 (SWEET REI) (bagged)
Photographed date: August 31, 2017

Fig. 3



The variety for application for registration: C-21 (SWEET REI) (bagged)
Photographed date: August 31, 2017

Fig. 4



The variety for application for registration: C-21 (SWEET REI) (bagged)
Photographed date: August 31, 2017

Fig. 5



The variety for application for
registration:
C-21 (SWEET REI) (bagged)
Photographed date:
September 1, 2017

(Non-bagged)

Fig. 6

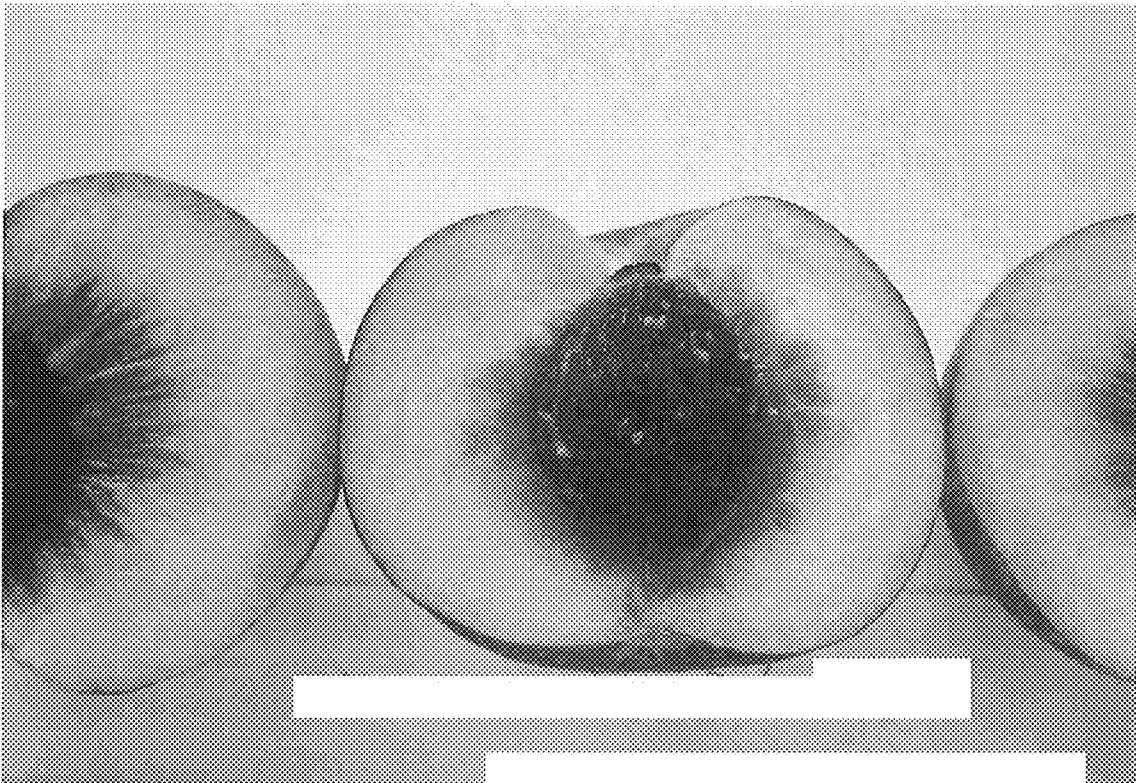


The variety for application for registration:
C-21 (SWEET REI) (bagged)
Photographed date:
September 1, 2017

SWEET VENUS

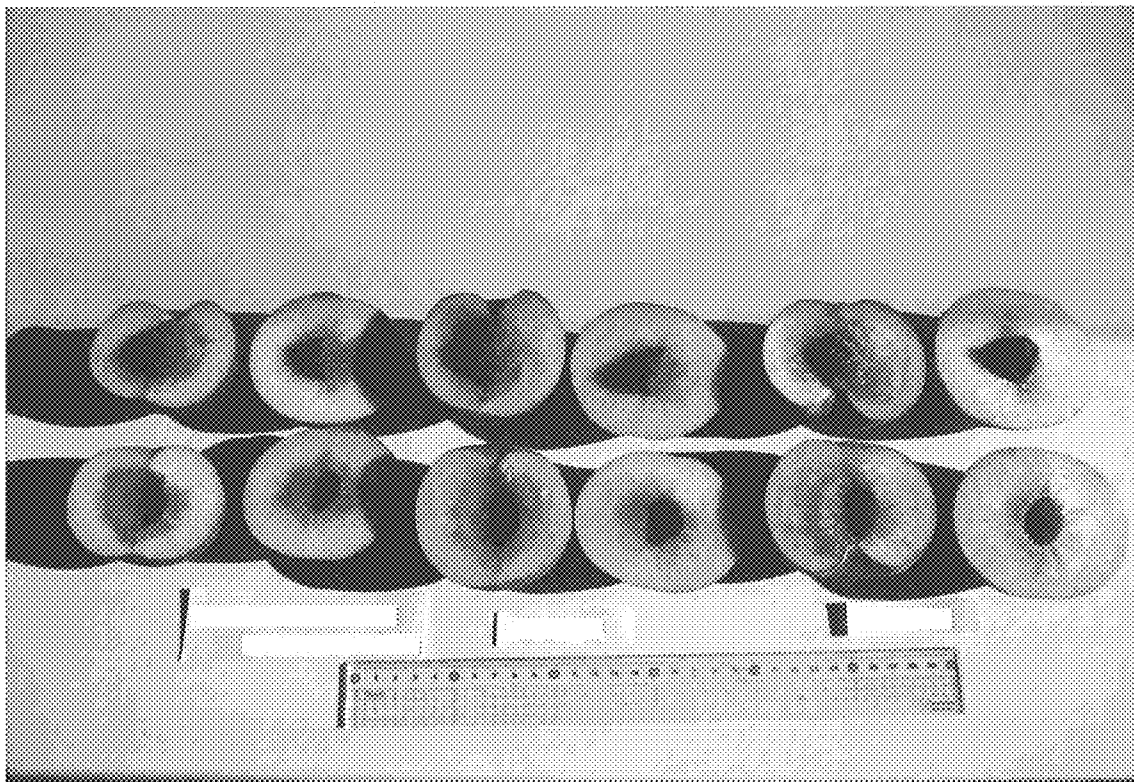
Kawanakajimahakuto

Fig. 7



The variety for application for registration: C-21 (SWEET REI) (bagged)
Photographed date: August 31, 2017

Fig. 8



The variety for application for registration:

C-21 (SWEET REI) (bagged)

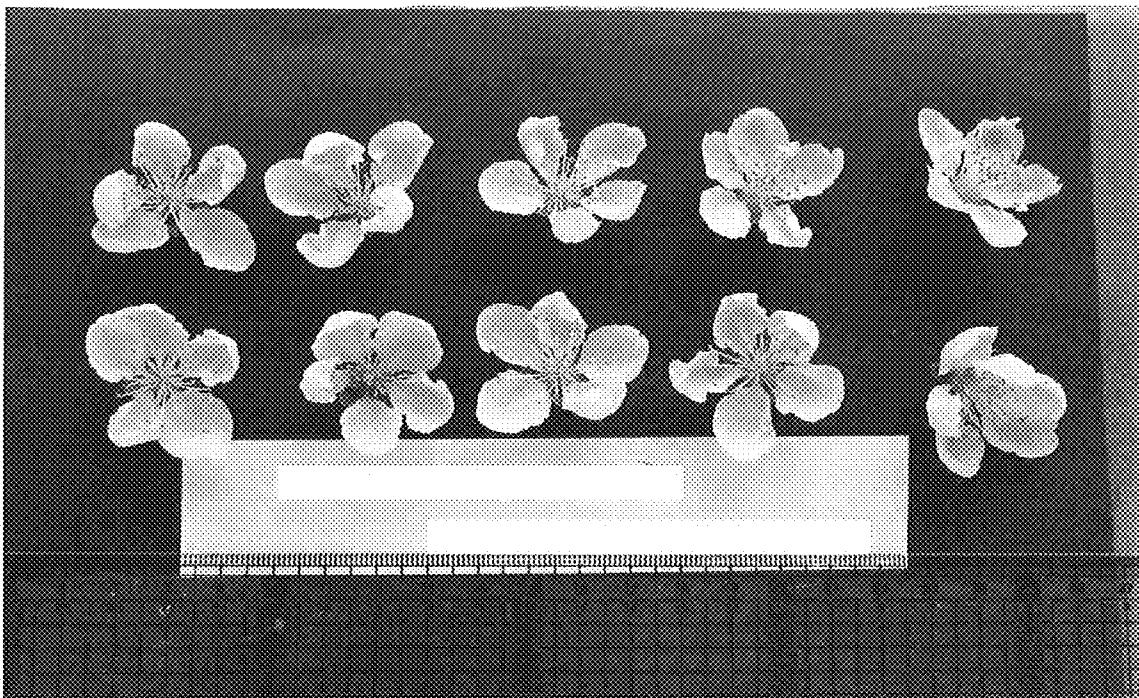
Photographed date:

September 1, 2017

SWEET VENUS

Kawanakajimahakuto

Fig. 9



The variety for application for registration: C-21 (SWEET REI)

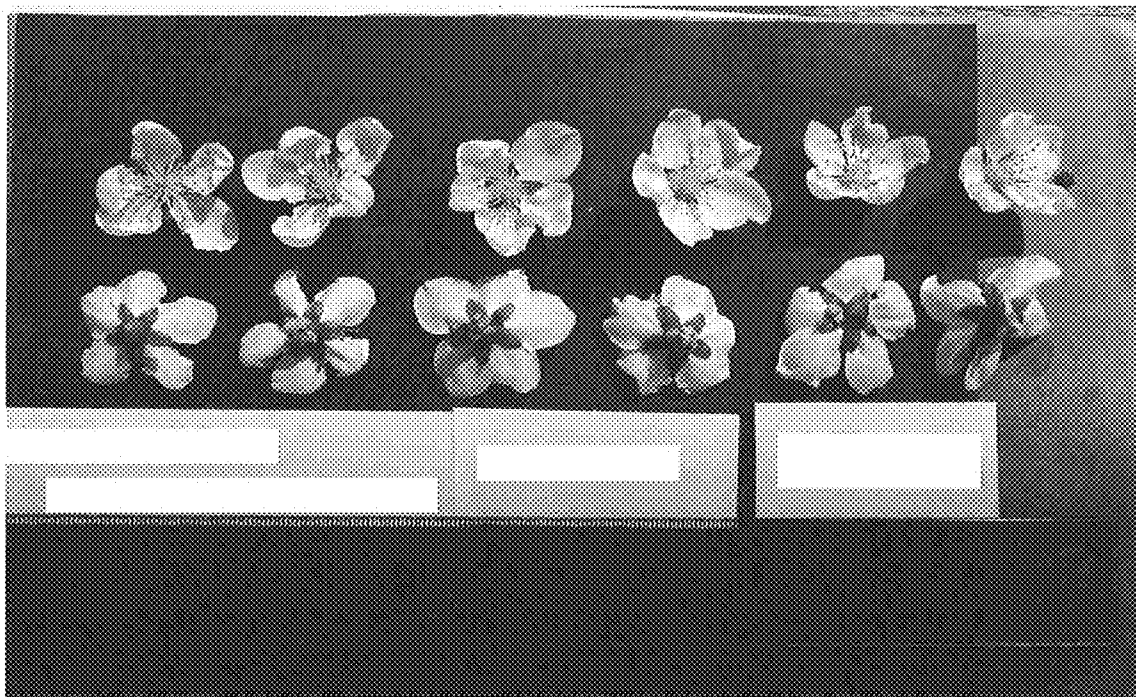
Photographed date: April 10, 2018

Fig. 10



The variety for application for registration: C-21 (SWEET REI)
Photographed date: April 10, 2018

Fig. 11

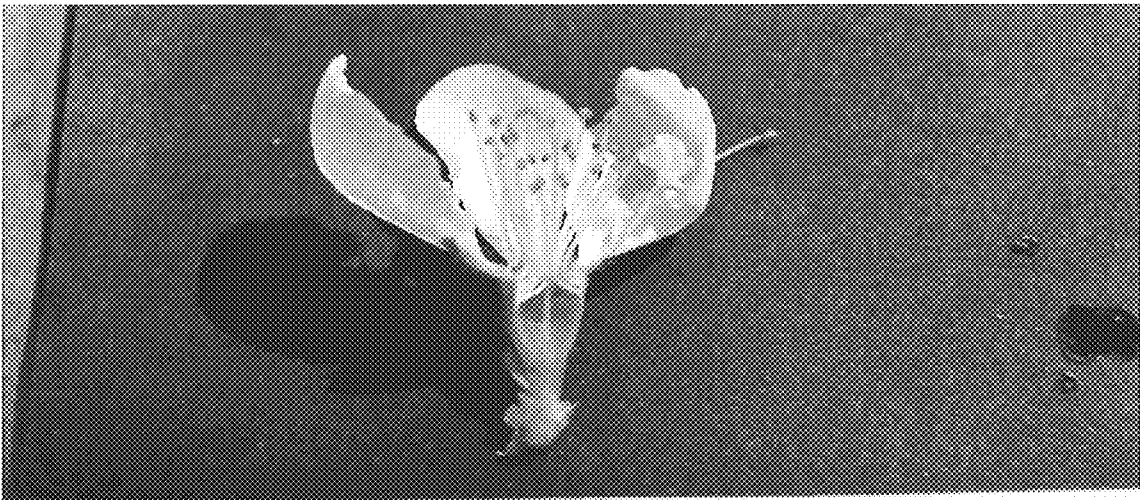


The variety for application:
C-21 (SWEET REI)
Photographed date: April 10, 2018

SWEET VENUS

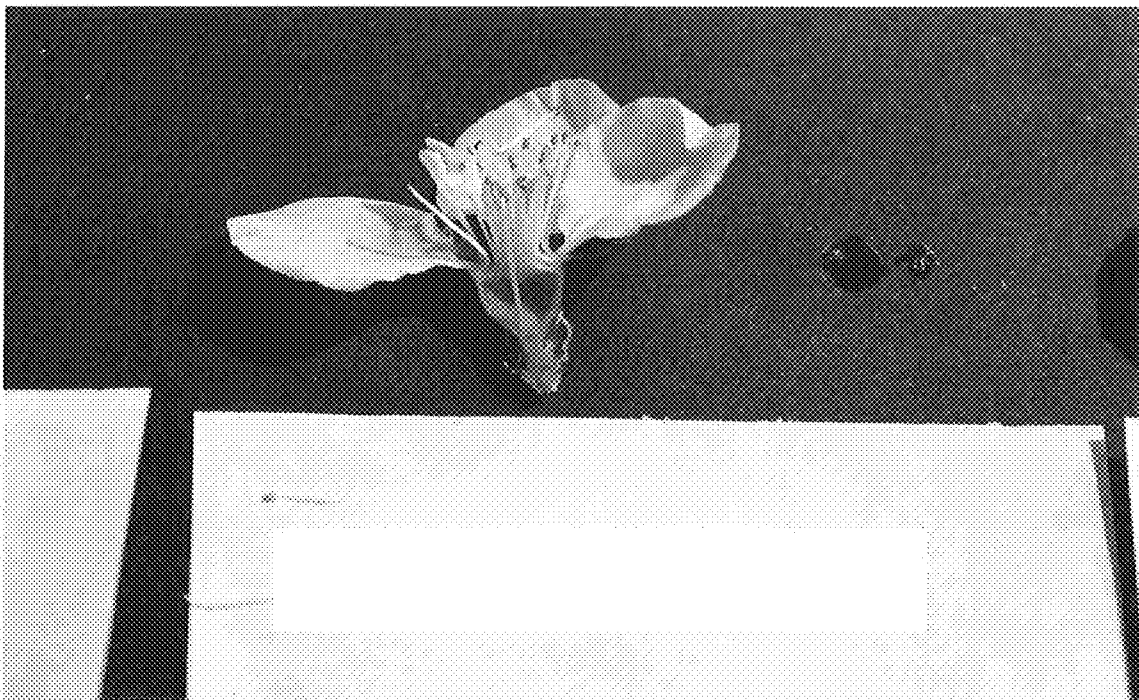
Kawanakajimahakuto

Fig. 12



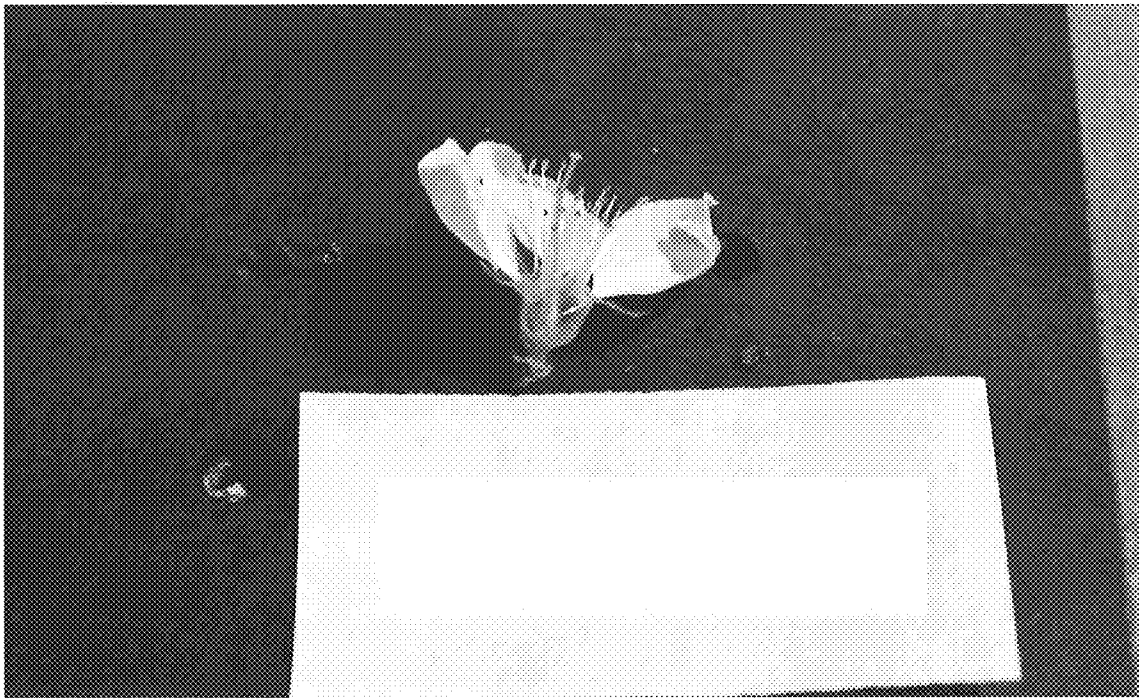
The variety: C-21 (SWEET REI)

Fig. 13



SWEET VENUS

Fig. 14



Kawanakajimahakuto

Fig. 15

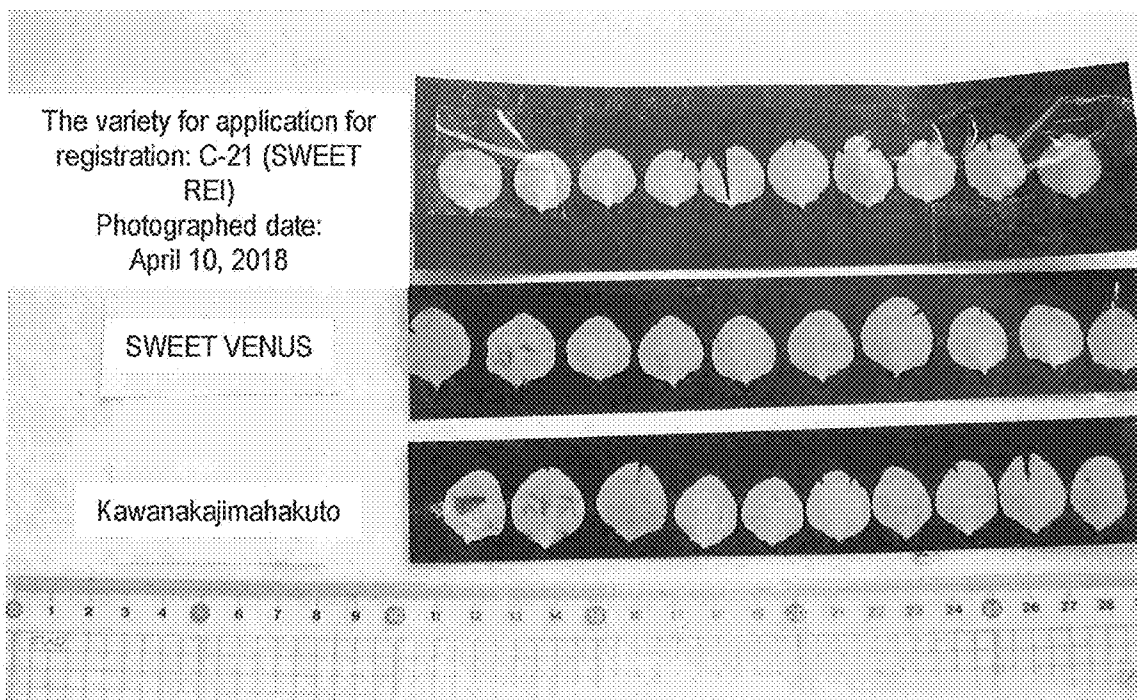
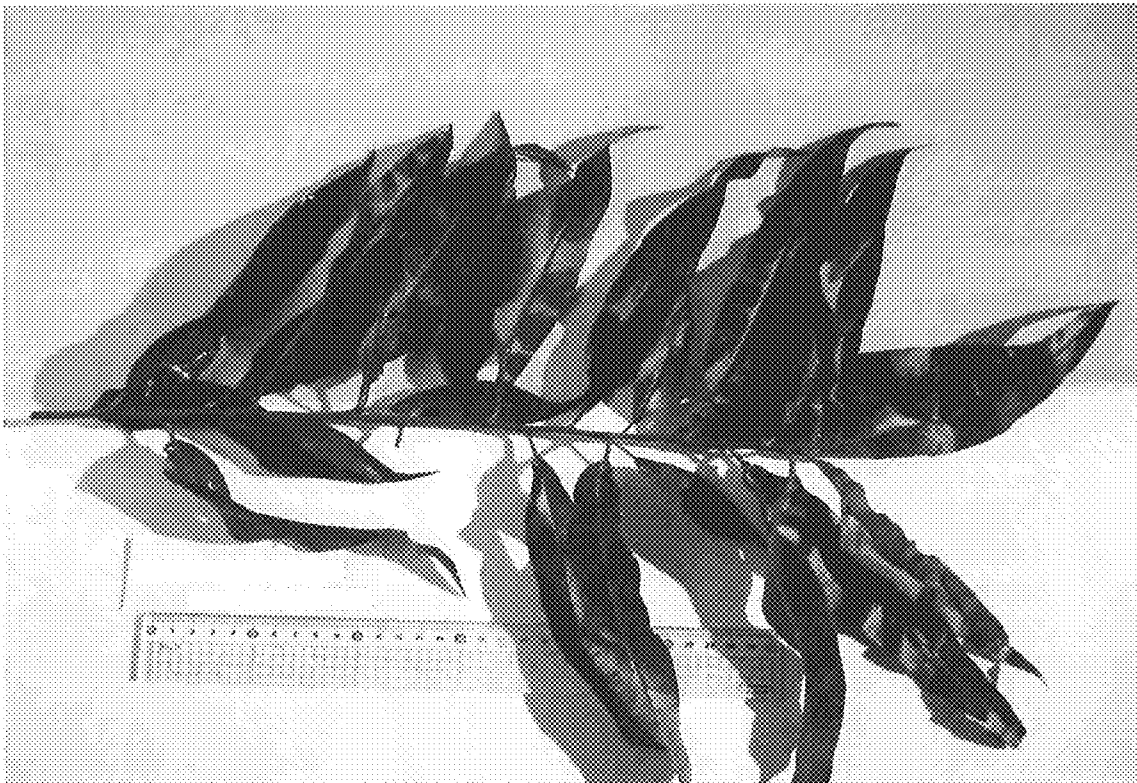
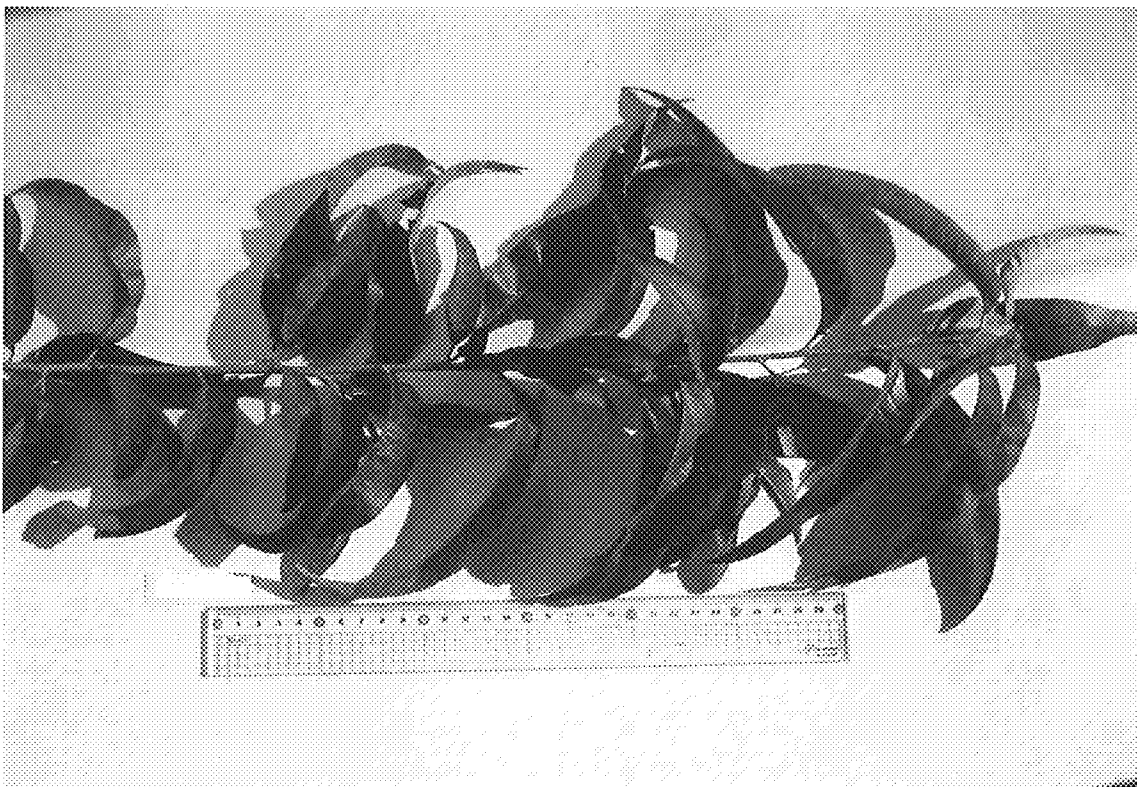


Fig. 16



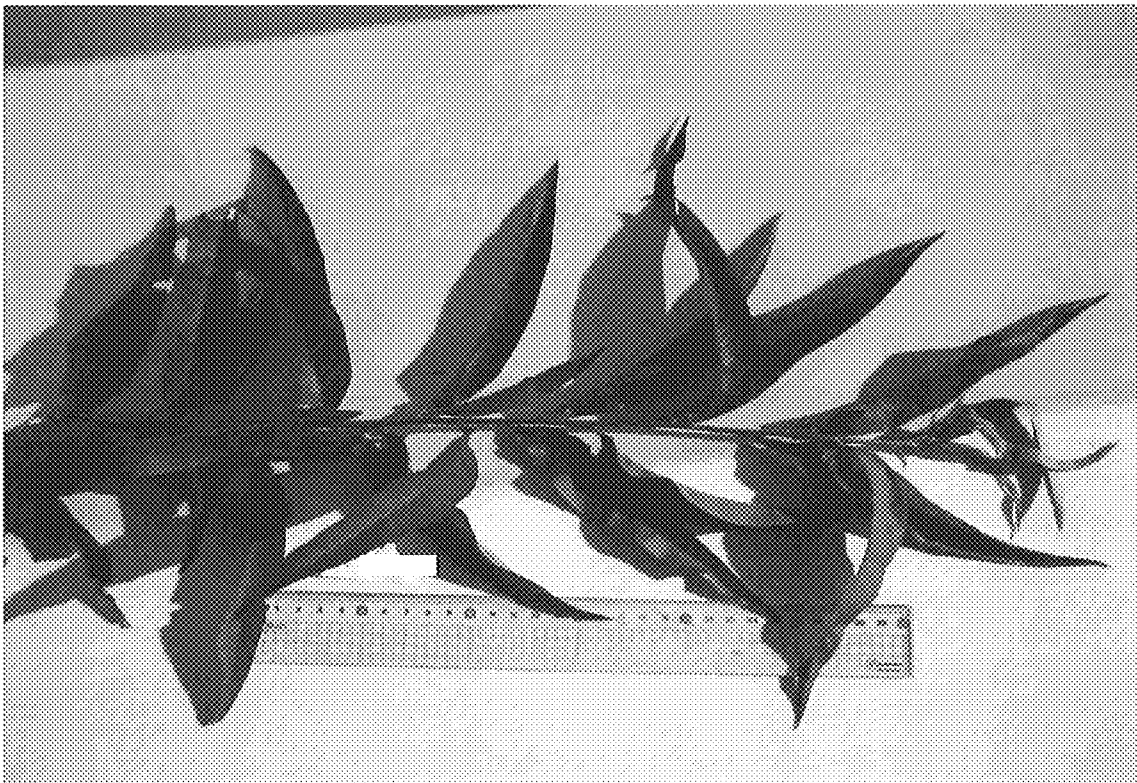
The variety for application for registration: C-21 (SWEET REI) (bagged)
Photographed date: September 1, 2017

Fig. 17



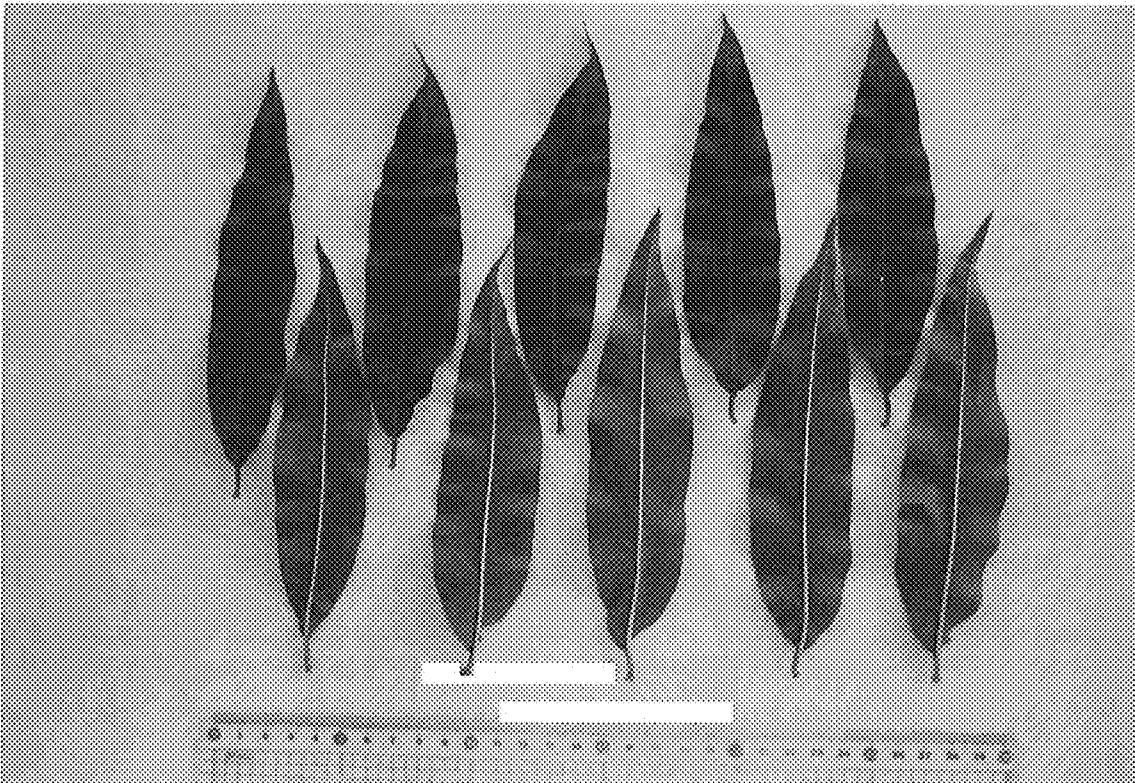
SWEET VENUS

Fig. 18



Kawanakajimahakuto

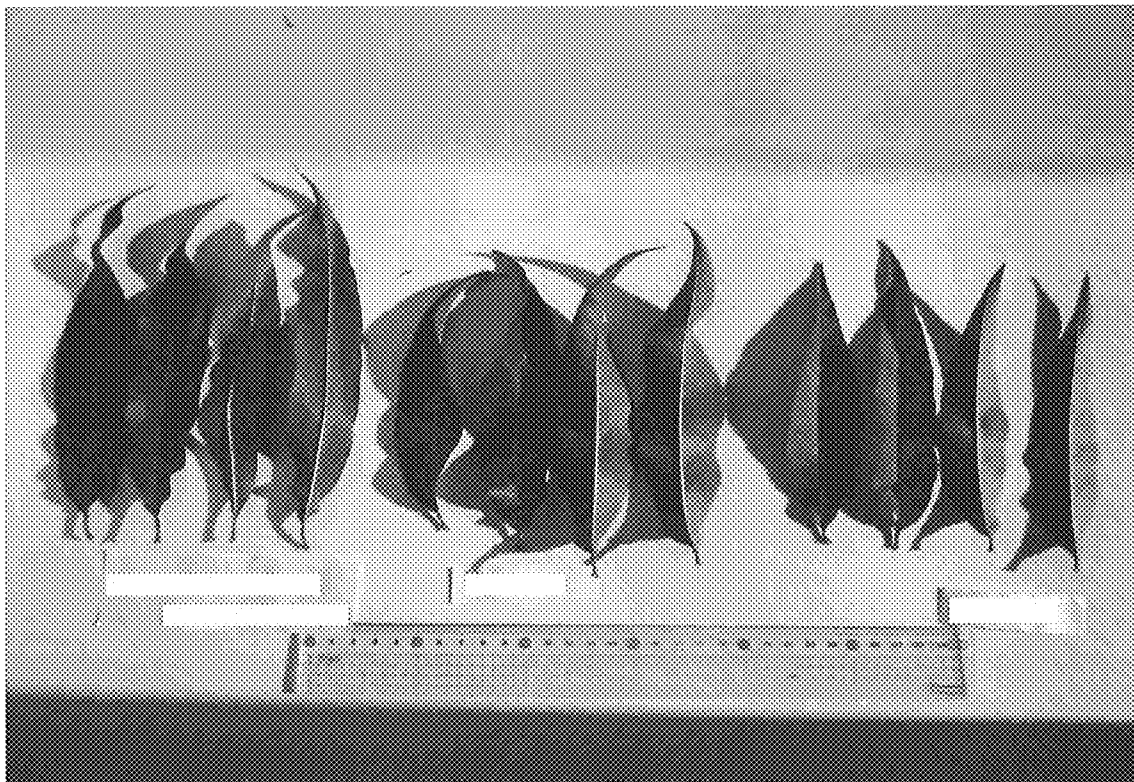
Fig. 19



The variety for application for registration: C-21 (SWEET REI)

Photographed date: September 1, 2017

Fig. 20



The variety for application for
registration:
C-21 (SWEET REI) (bagged)
Photographed date:
September 1, 2017

SWEET VENUS

Kawanakajimahakuto

Fig. 21

