



US00PP35158P2

(12) **United States Plant Patent**
Stewart et al.

(10) **Patent No.:** **US PP35,158 P2**

(45) **Date of Patent:** **May 9, 2023**

- (54) **STRAWBERRY PLANT NAMED 'DRISSTRAWONEHUNDREDONE'**
- (50) Latin Name: *Fragaria x ananassa*
Varietal Denomination:
DrisStrawOneHundredOne
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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 0 days.
- (21) Appl. No.: **17/855,310**
- (22) Filed: **Jun. 30, 2022**
- (51) **Int. Cl.**
A01H 5/08 (2018.01)
A01H 6/74 (2018.01)
- (52) **U.S. Cl.**
USPC **Plt./209**
CPC *A01H 6/7409* (2018.05)
- (58) **Field of Classification Search**
USPC **Plt./209**
CPC *A01H 6/7409*; *A01H 5/08*
See application file for complete search history.

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(57) **ABSTRACT**
A new and distinct variety of strawberry plant named 'DrisStrawOneHundredOne', particularly selected for its fruit flavor as well as having large, glossy, and firm fruit, in addition to the plant having high yield potential and being healthy and vigorous, is disclosed.

6 Drawing Sheets

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**STRAWBERRY PLANT NAMED
'DRISSTRAWONEHUNDREDOE'**

Latin name:

Botanical classification: *Fragaria* x *ananassa*.

Varietal denomination: The varietal denomination of the claimed variety of strawberry plant is 'DrisStrawOneHundredOne'.

BACKGROUND OF THE INVENTION

Cultivated strawberry is a hybrid species of the genus *Fragaria* that is grown worldwide for its fruit. Modern strawberry was first bred in Brittany, France, in the 18th century by crossing *Fragaria virginiana* with *Fragaria chiloensis*. Strawberry fruit is an aggregate accessory fruit, with the fleshy part of the fruit being derived from the receptacle that holds the ovaries.

Strawberry varieties vary widely in color, size, shape, flavor, season of ripening, degree of fertility, and susceptibility to disease. Certain varieties vary in foliage, and some vary in the relative development of their reproductive organs. Typically, strawberry flowers appear hermaphroditic in structure, but function as either male or female. Generally, commercial production of strawberry plants involves propagation from runners and distribution as either plugs or bare root plants. Cultivation is either perennial or annual plasticulture. During the off season, strawberries can also be produced in greenhouses.

Strawberry fruit is widely appreciated for its characteristic bright red color, aroma, juicy texture, and sweetness. Strawberry fruit is a popular fruit that is generally consumed either fresh or in prepared foods, such as preserves and baked goods.

Strawberry is an important and valuable fruit crop. Accordingly, there is a need for new varieties of strawberry plants. In particular, there is a need for improved varieties of strawberry plant that are stable, high yielding, and agronomically sound.

SUMMARY OF THE INVENTION

In order to meet these needs, the present invention is directed to an improved variety of strawberry plant. In particular, the invention relates to a new and distinct variety of strawberry plant (*Fragaria* x *ananassa*), which has been denominated as 'DrisStrawOneHundredOne'.

Strawberry plant variety 'DrisStrawOneHundredOne' originated from a controlled cross between the proprietary strawberry female parent '182AB281' (unpatented) and the proprietary strawberry male parent '44AA282' (unpatented). Progeny plants from this cross, including 'DrisStrawOneHundredOne', were asexually propagated via stolons in Shasta County, Calif. in April 2016. Strawberry plant variety 'DrisStrawOneHundredOne' was later specifically identified and selected in Monterey County, Calif. in June 2017.

'DrisStrawOneHundredOne' was subsequently asexually propagated via stolons, and has undergone testing at test plots in Monterey County, Calif. for five years (2017 to 2022). The present variety has been found to be stable and reproduce true to type through successive asexual propagations via stolons and tissue culture.

'DrisStrawOneHundredOne' was particularly selected for its fruit flavor as well as having large, glossy, and firm fruit, in addition to the plant having high yield potential and being healthy and vigorous.

DESCRIPTION OF THE DRAWINGS

This new strawberry plant is illustrated by the accompanying photographs. The colors shown are as true as can be reasonably obtained by conventional photographic procedures. Unless otherwise indicated, the photographs are of plants that are six months old.

FIG. 1 illustrates whole fruit of variety 'DrisStrawOneHundredOne'.

FIG. 2 illustrates longitudinal sections of fruit of variety 'DrisStrawOneHundredOne'.

FIG. 3 illustrates the upper surface of flowers of variety 'DrisStrawOneHundredOne'.

FIG. 4 illustrates different views of leaves of variety 'DrisStrawOneHundredOne'.

FIG. 5 illustrates leaflets of variety 'DrisStrawOneHundredOne'.

FIG. 6 illustrates stolons of variety 'DrisStrawOneHundredOne'.

DETAILED BOTANICAL DESCRIPTION

The following detailed descriptions set forth the distinctive characteristics of 'DrisStrawOneHundredOne'. The data which define these characteristics is based on observations taken in Monterey County, Calif. from 2017 to 2022. This description is in accordance with UPOV terminology. Color designations, color descriptions, and other phenotypical descriptions may deviate from the stated values and descriptions depending upon variation in environmental, seasonal, climatic, and cultural conditions. 'DrisStrawOneHundredOne' has not been observed under all possible environmental conditions. The botanical description of 'DrisStrawOneHundredOne' was taken from plants that were six months old. The indicated values represent averages calculated from measurements of several plants. Color references are primarily to The R.H.S. Colour Chart of The Royal Horticultural Society of London (R.H.S.) (2015 edition). Descriptive terminology follows the *Plant Identification Terminology, An Illustrated Glossary, 2nd edition* by James G. Harris and Melinda Woolf Harris, unless where otherwise defined.

Classification:

Species.—*Fragaria* x *ananassa*.

Common name.—Strawberry.

Denomination.—'DrisStrawOneHundredOne'.

Parentage:

Female parent.—Proprietary strawberry plant '182AB281' (unpatented).

Male parent.—Proprietary strawberry plant '44AA282' (unpatented).

Plant:

Height.—21.3 cm.

Diameter.—37.2 cm.

Height/width ratio.—0.57.

Number of crowns per plant.—4.

Growth habit.—Semi-upright.

Density of foliage.—Dense.

Vigor.—Strong.

Stolon:

Diameter (at bract).—2.15 mm.

Overall color.—RHS 143A (Strong yellow green).

Anthocyanin coloration.—Weak.

Anthocyanin color.—RHS 59B (Deep purplish red).

Density of pubescence.—Medium.

Fruiting truss:

Length (from crown to base of terminal flower or fruit).—18.5 cm.

Diameter (at base of truss).—0.49 cm.

Number of berries per truss.—1.4.

Attitude at first picking.—Semi-erect.

Color (at base of truss).—RHS 135B (Moderate green).

Leaf:

Number of leaflets.—Three only.

Color of leaf upper surface.—RHS 143B (Strong yellow green).

Color of leaf lower surface.—RHS 147C (Moderate yellow green).

Blistering.—Medium.

Glossiness.—Medium.

Variation.—Absent.

Terminal leaflet.—Length: 7.6 cm. Width: 8.5 cm.

Length/width ratio: 0.89. Number of teeth per terminal leaflet: 22.2. Overall shape: Orbicular. Shape of base: Obtuse. Shape of apex: Rounded. Margin: Crenate. Margin profile: Cupped. Shape in cross section: Concave.

Petiole.—Length: 25.8 cm. Diameter: 4.1 mm. Overall color: RHS 139B (Moderate yellow green). Pubescence: Medium. Attitude of hairs: Slightly outwards. Bract frequency (number present on each petiole): 1.5.

Petiolule.—Length: 22.6 mm. Diameter: 2.05 mm. Color: RHS 136A (Dark green).

Stipule.—Length: 2.9 mm. Width: 14.4 mm. Stipule color: RHS 139C (Moderate yellow green). Anthocyanin coloration: Weak. Anthocyanin color: RHS N57D (Deep purplish pink). Pubescence: Medium.

Inflorescence:

Number of flowers per plant.—4.8.

Position of inflorescence in relation to foliage.—Same level.

Flowering interval.—April to October.

Pedicel.—Attitude of hairs: Slightly outwards.

Flower.—Flower diameter (petal tip to petal tip on non-flattened flower): 24.8 mm. Arrangement of petals: Free. Size of calyx in relation to corolla: Larger. Stamen: Present. Anther color: RHS 172A (Strong brown).

Petal.—Length: 9.3 mm. Width: 8.4 mm. Length/width ratio: 1.1. Number of petals per flower: 5.9. Color of upper and lower surface: RHS 155B (Pinkish white). Overall shape: Orbicular. Margin: Entire. Shape of base: Concavo-convex.

Calyx.—Diameter (sepal tip to sepal tip, measured on back of flower): 43.4 mm.

Sepal.—Length: 18.7 mm. Width: 8.5 mm. Number of sepals per flower: 13.5. Overall shape: Elliptical. Margin: Entire.

Fruit:

Fruit size.—Length: 43.3 mm. Width: 46.9 mm. Length/width ratio: 0.92.

Fruit hollow.—Length: 8.9 mm. Width: 7.15 mm. Length/width ratio: 1.2.

Shape.—Conical.

Difference in shape of terminal and other fruits.—None or very slight.

Fruit color.—RHS 44A (Vivid red).

Evenness of color.—Slightly uneven.

Glossiness.—Medium.

Evenness of surface.—Even or very slightly uneven.

Width of band without achenes.—Absent or very narrow.

Position of achenes.—Level with surface.

Position of calyx attachment.—Level with fruit.

Attitude of sepals.—Outwards.

Diameter of calyx in relation to diameter of fruit.—Slightly smaller.

Adherence of calyx.—Strong.

Firmness.—Medium firm.

Color of flesh (excluding core).—RHS 43A (Vivid reddish orange).

Evenness of flesh color.—Slightly uneven.

Distribution of flesh color.—Marginal and central.

Color of core.—RHS 41A (Vivid reddish orange).

Sweetness/soluble solids (in ° Brix).—9.1.

Individual fruit weight.—28.3 g/fruit.

Achenes.—Color of upper (sunward) side: RHS 184A (Greyish red). Color of lower (shaded) side: RHS N148A (Moderate yellow green).

Fruiting.—Harvest interval: April to November. Type of bearing: Partially remontant. Productivity: 84,000 lbs to 95,000 lbs of fruit per acre per season from ten-month-old plants when grown in Santa Maria, Calif.

Resistance to abiotic stress, pests, and diseases:

Two-spotted spider mite (tetranychus urticae).—Moderately susceptible.

Powdery mildew (podosphaera macularis).—Moderately resistant.

COMPARISON WITH PARENTAL AND REFERENCE VARIETIES

‘DrisStrawOneHundredOne’ differs from the female parent proprietary strawberry plant ‘182AB281’ (unpatented) in that ‘DrisStrawOneHundredOne’ has improved fruit flavor, higher yield potential, and fewer culls than ‘182AB281’.

‘DrisStrawOneHundredOne’ differs from the male parent proprietary strawberry plant ‘44AA282’ (unpatented) in that ‘DrisStrawOneHundredOne’ has improved fruit flavor, higher yield potential, and fewer culls than ‘44AA282’.

‘DrisStrawOneHundredOne’ differs from the reference variety ‘DrisStrawEighty’ (U.S. Plant Pat. No. 32,824) in that ‘DrisStrawOneHundredOne’ has weak stolon anthocyanin coloration, large fruit size, petal length is moderately shorter in relation to petal width, and the density of foliage is dense, whereas ‘DrisStrawEighty’ has medium stolon anthocyanin coloration, medium fruit size, petal length is moderately longer in relation to petal width, and the density of foliage is medium.

‘DrisStrawOneHundredOne’ differs from the reference variety ‘DrisStrawSixtySix’ (U.S. Plant Pat. No. 31,703) in that ‘DrisStrawOneHundredOne’ has strong plant vigor, partially remontant type of bearing, calyx diameter is slightly smaller in relation to fruit diameter, and the density of foliage is dense, whereas ‘DrisStrawSixtySix’ has medium plant vigor, day neutral type of bearing, calyx diameter is slightly larger in relation to fruit diameter, and the density of foliage is medium.

We claim:

1. A new and distinct variety of strawberry plant named ‘DrisStrawOneHundredOne’ as shown and described herein.

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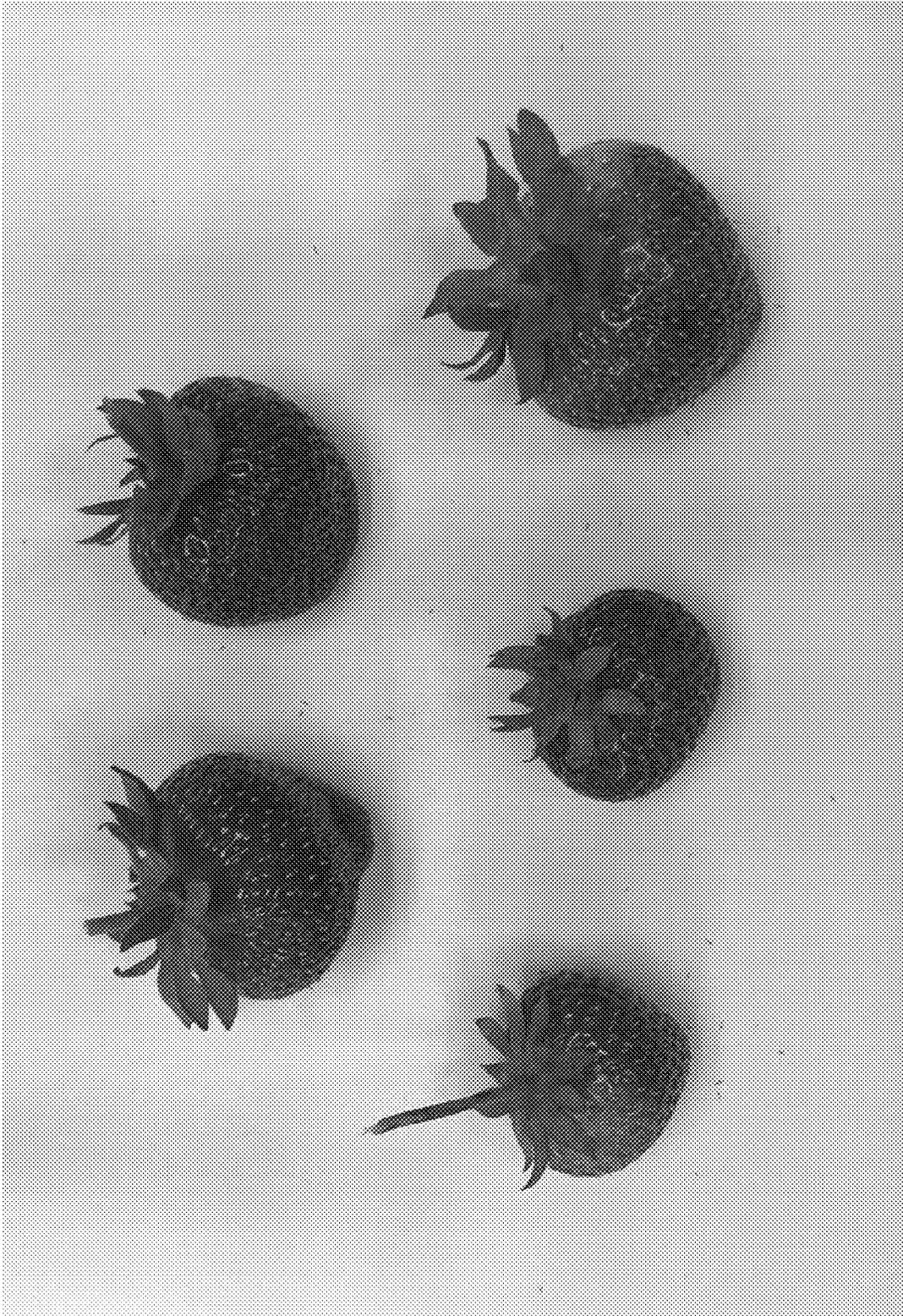


FIG. 1

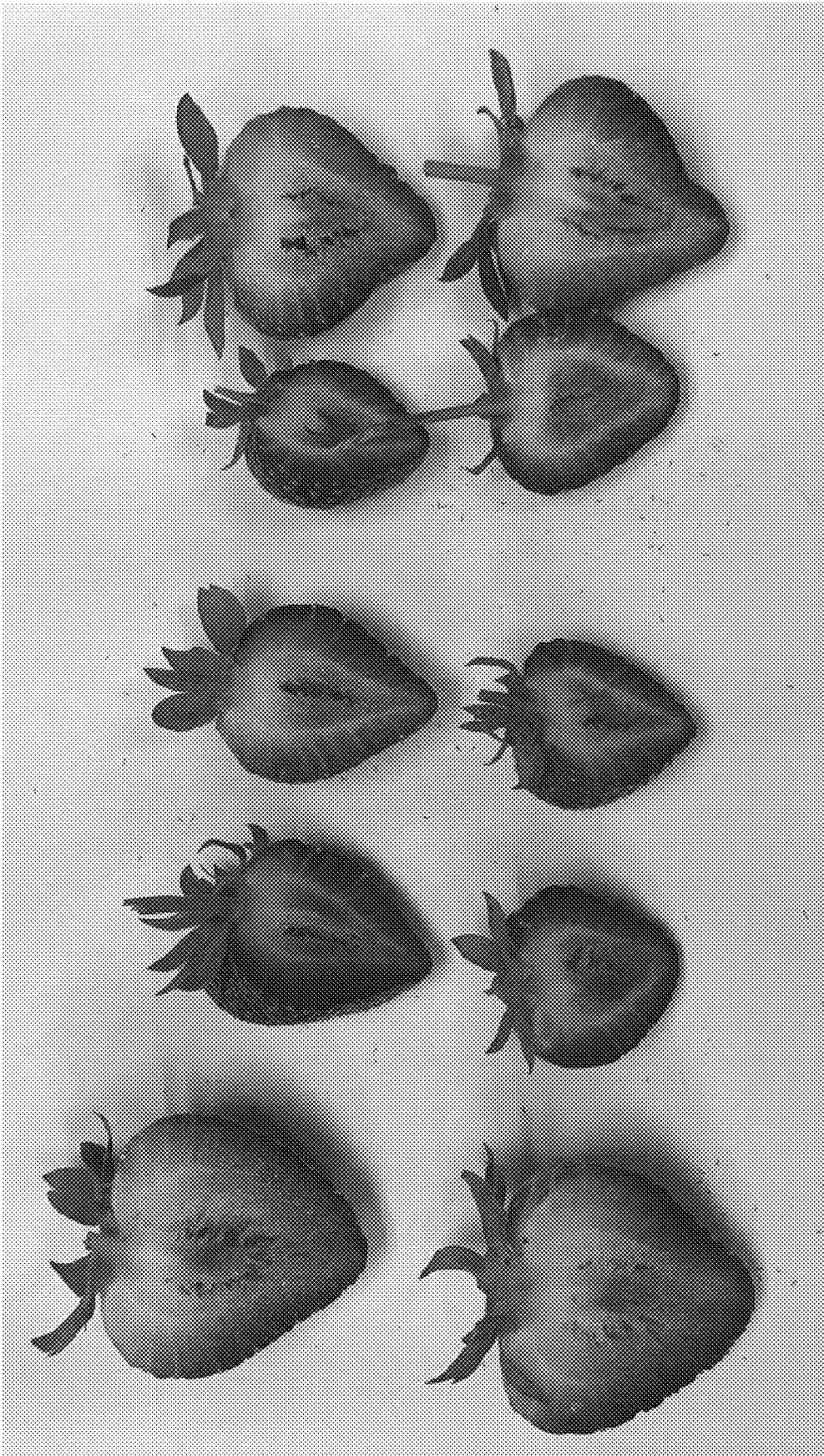


FIG. 2

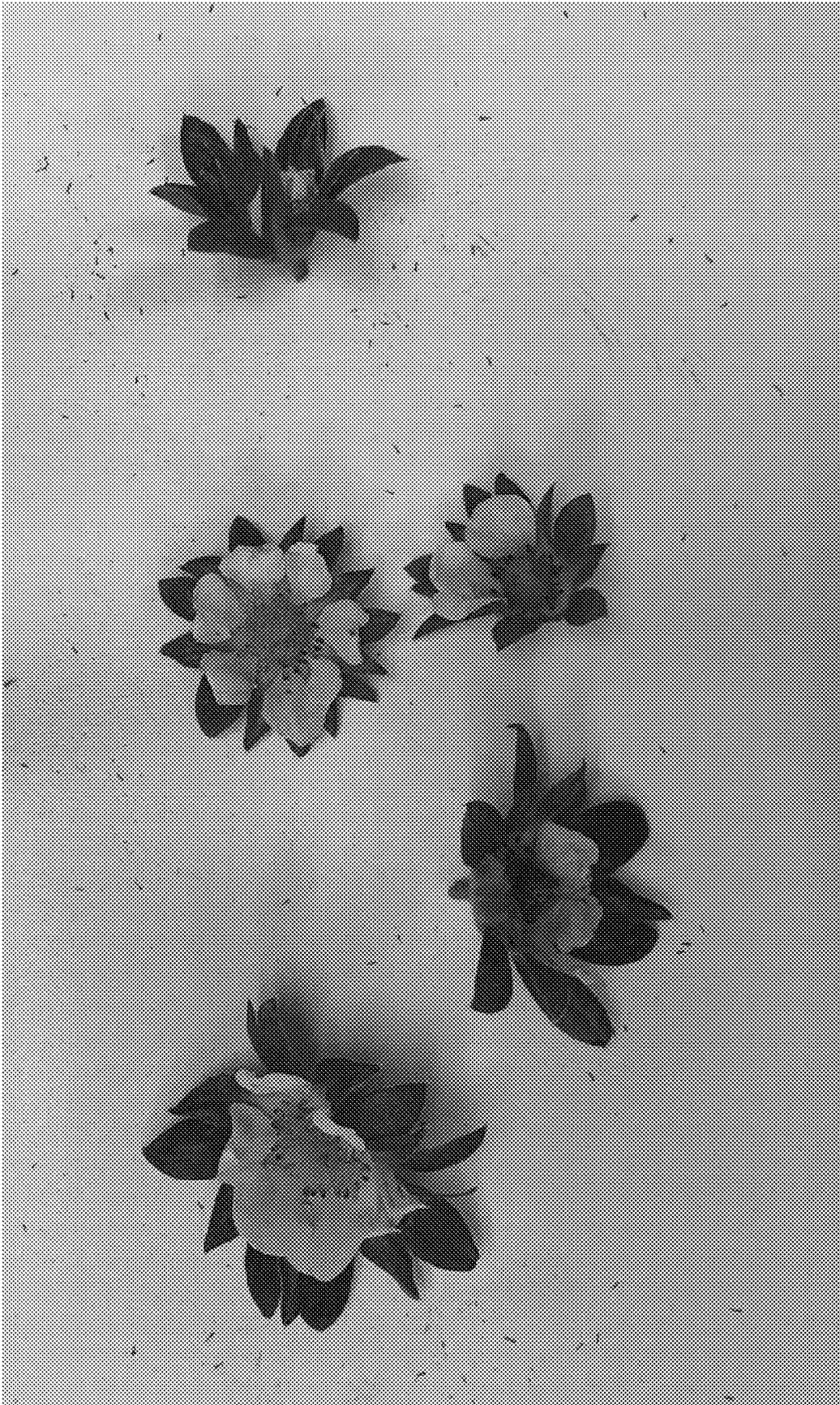


FIG. 3

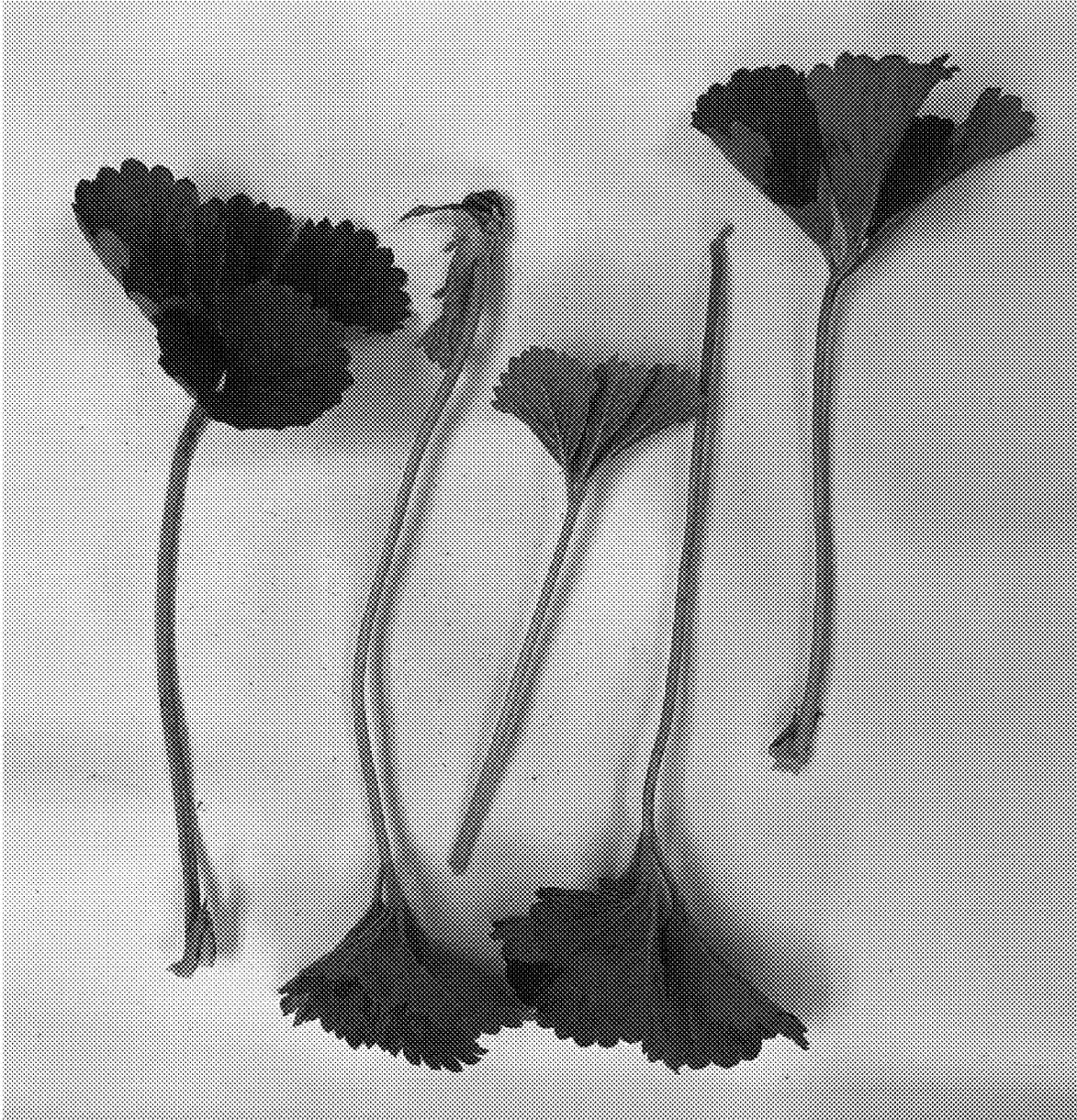


FIG. 4

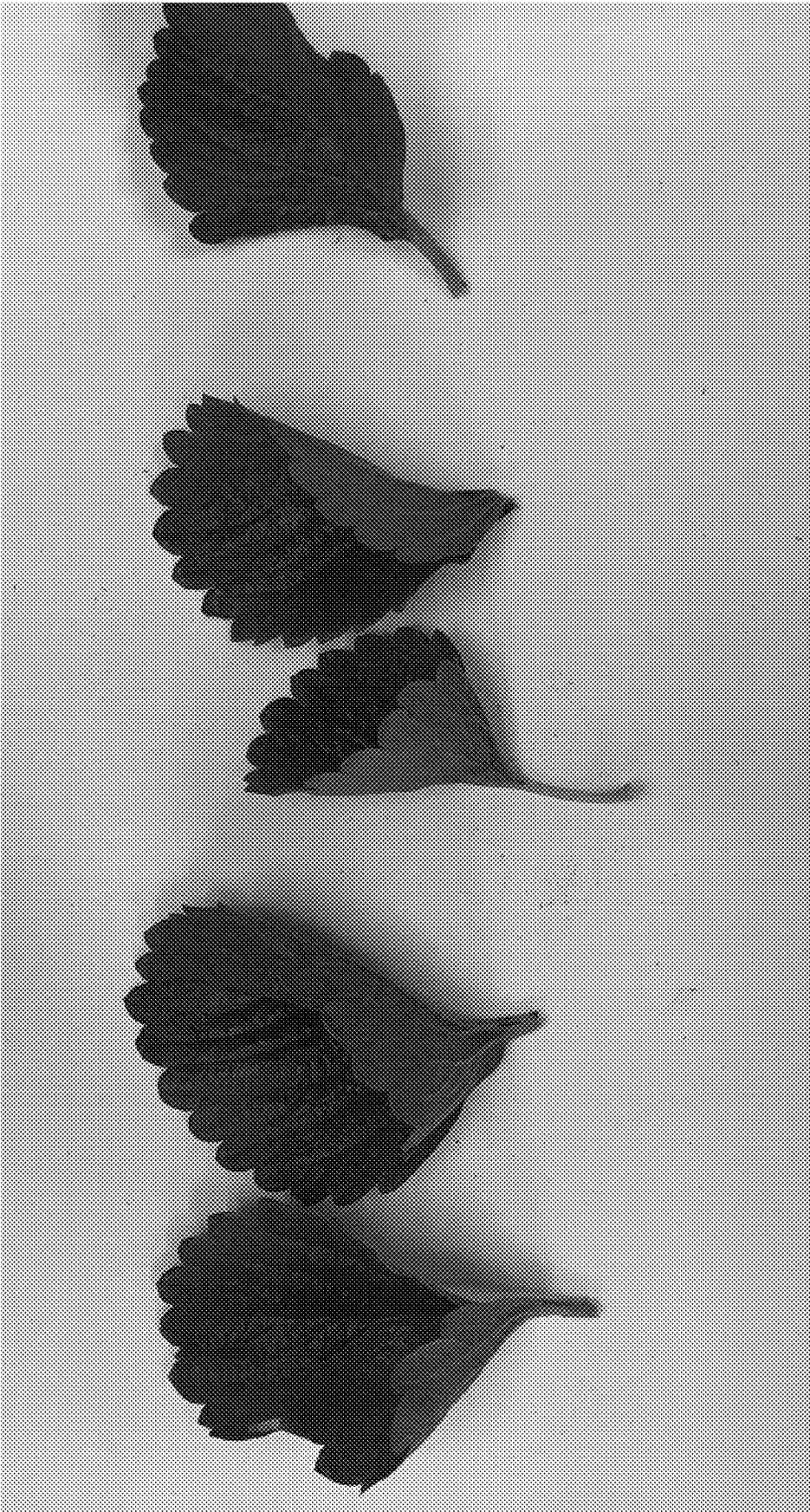


FIG. 5

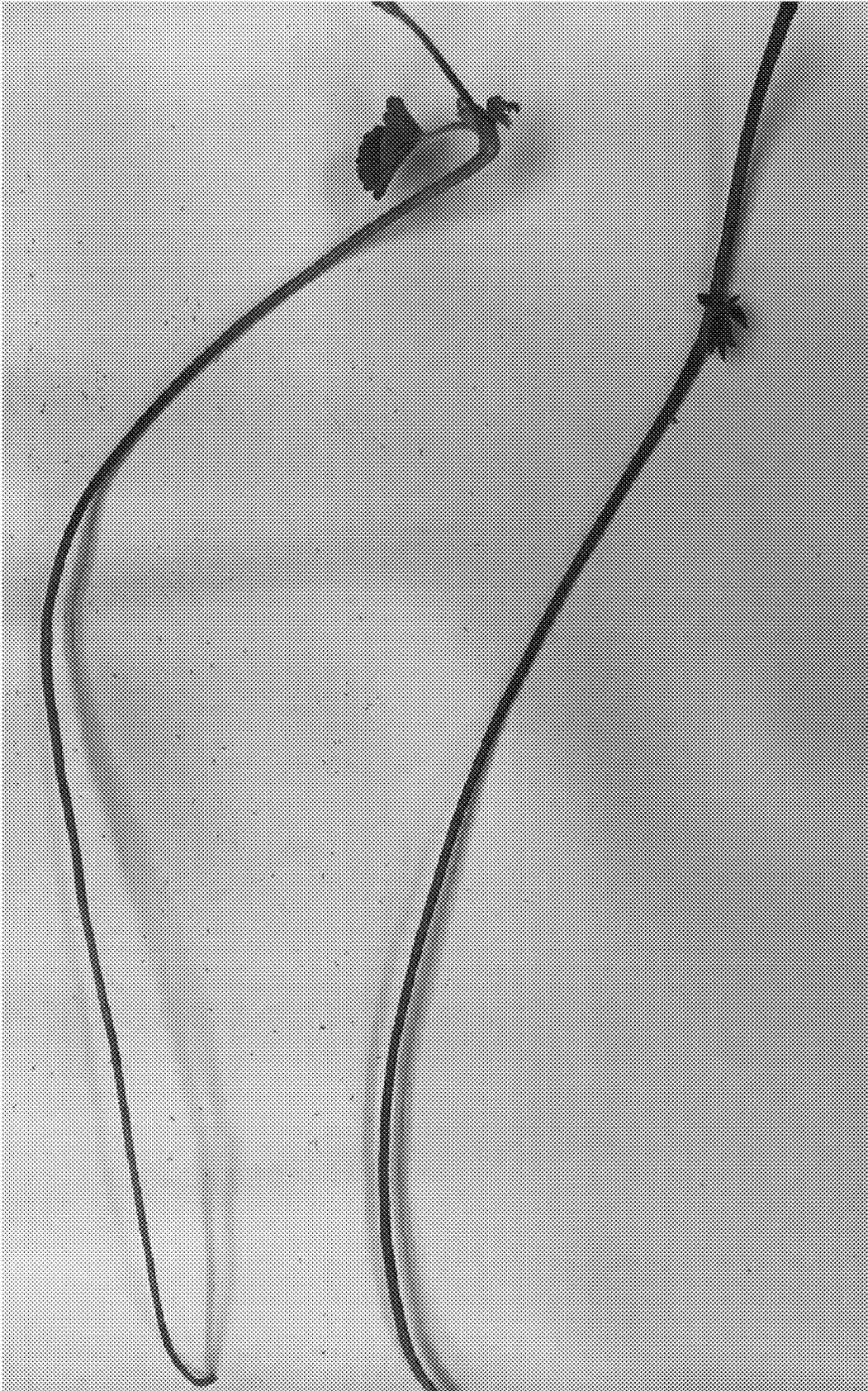


FIG. 6