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**Hernandez et al.**

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- (54) **STRAWBERRY PLANT NAMED ‘DRISSTRAW EIGHTYFOUR’**
- (50) Latin Name: *Fragaria x ananassa*  
Varietal Denomination: **DrisStrawEightyFour**
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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.

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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct variety of strawberry plant named ‘DrisStrawEightyFour’, particularly selected for its medium-sized plant with long trusses, its conic fruit with bright, intense red color, as well as its very early maturity, is disclosed.

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## 1

**STRAWBERRY PLANT NAMED  
'DRISSTRAWEIGHTYFOUR'**

Latin name: Botanical classification: *Fragaria x ananassa*.

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

**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 18<sup>th</sup> 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 'DrisStrawEightyFour'.

Strawberry plant variety 'DrisStrawEightyFour' originated from a cross between the proprietary female parent '974AC033' (unpatented) and the proprietary male parent 'ES089.028' (unpatented). Progeny plants from this cross of '974AC033' x 'ES 089.028', including 'DrisStrawEightyFour', were asexually propagated via stolons in Valladolid, Spain in August of 2018. Strawberry plant variety 'DrisStrawEightyFour' was later specifically identified and selected in Huelva, Spain in 2019.

'DrisStrawEightyFour' was subsequently asexually propagated via stolons, and has undergone testing at test plots in Huelva, Spain for two years (2018 to 2020). The present variety has been found to be stable and reproduce true to type through successive asexual propagations via stolons and tissue culture.

'DrisStrawEightyFour' was particularly selected for its medium-sized plant with long trusses, its conic fruit with bright, intense red color, as well as its very early maturity.

**DESCRIPTION OF THE DRAWINGS**

This new strawberry plant is illustrated by the accompanying photographs. The colors shown are as true as can be

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reasonably obtained by conventional photographic procedures. Unless otherwise indicated, the photographs are of plants that are four to five months old from planting.

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

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

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

FIG. 4 illustrates the lower surface of flowers of variety 'DrisStrawEightyFour'.

FIG. 5 illustrates the upper surface of leaves of variety 'DrisStrawEightyFour'.

FIG. 6 illustrates the lower surface of leaves of variety 'DrisStrawEightyFour'.

FIG. 7 illustrates 3-month-old whole plants of variety 'DrisStrawEightyFour'.

FIG. 8 illustrates 5-month-old whole plants of variety 'DrisStrawEightyFour'.

FIG. 9 illustrates 8-month-old whole plants of variety 'DrisStrawEightyFour'.

**DETAILED BOTANICAL DESCRIPTION**

The following detailed descriptions set forth the distinctive characteristics of 'DrisStrawEightyFour'. The data which define these characteristics is based on observations taken in Huelva, Spain. 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. 'DrisStrawEightyFour' has not been observed under all possible environmental conditions. The botanical description of 'DrisStrawEightyFour' was taken from plants that were four to five months old from planting. 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*, 2<sup>nd</sup> edition by James G. Harris and Melinda Woolf Harris, unless where otherwise defined.

Classification:

*Species*.—*Fragaria x ananassa*.

*Common name*.—Strawberry.

*Denomination*.—'DrisStrawEightyFour'.

Parentage:

*Female parent*.—Proprietary strawberry plant '974AC033' (unpatented).

*Male parent*.—Proprietary strawberry plant 'ES089.028' (unpatented).

Plant:

*Height*.—18.6 cm.

*Diameter*.—33.5 cm.

*Height/width ratio*.—0.55.

*Number of crowns per plant*.—4.1.

*Growth habit*.—Semi-upright.

*Density of foliage*.—Dense.

*Vigor*.—Medium.

Stolon:

*Average number of stolons per plant*.—8.54.

*Stolon color*.—RHS 145A (Strong yellow-green).

*Anthocyanin coloration*.—Medium.

*Stolon color with anthocyanin coloration*.—RHS 174B (Greyish reddish orange).

*Density of pubescence*.—Medium.

## Fruiting truss:

*Attitude at first picking.*—Prostrate.

## Leaf:

*Leaf length (all leaflets together, excluding petiole and stipules).*—9.5 cm. 5

*Leaf width (all leaflets together, excluding petiole and stipules).*—15.6 cm.

*Number of leaflets.*—Three only.

*Color of leaf upper surface.*—RHS 147A (Moderate olive green). 10

*Color of leaf lower surface.*—RHS 138B (Moderate yellow-green).

*Blistering.*—Medium.

*Glossiness.*—Absent or weak.

*Variation.*—Absent. 15

## Terminal leaflet:

*Length.*—5.69 cm.

*Width.*—5.41 cm.

*Length/width ratio.*—1.05.

*Length in relation to width.*—Moderately longer. 20

*Shape.*—Orbicular.

*Number of teeth per terminal leaflet.*—15.1.

*Shape of base.*—Obtuse.

*Shape of apex.*—Rounded.

*Margin.*—Crenate. 25

*Margin profile.*—Revolute (margins rolled backwards).

*Shape in cross section.*—Concave.

## Petiole.—

*Length.*—126.2 mm; medium.

*Diameter.*—2.52 mm. 30

*Color.*—RHS 145B (Light yellow-green).

*Pubescence.*—Sparse.

*Attitude of hairs.*—Horizontal.

*Bract frequency (number present on each petiole).*—2. 35

## Petiolule:

*Length.*—7.1 mm.

*Diameter.*—1.63 mm.

*Color.*—RHS 145A (Strong yellow-green).

## Stipule:

*Length.*—22.4 mm. 40

*Width.*—5.9 mm.

*Pubescence.*—Absent or very sparse.

*Color.*—RHS 144B (Strong yellow-green).

*Anthocyanin coloration.*—Weak.

*Anthocyanin color.*—RHS 52D (Strong pink). 45

## Inflorescence:

*Average number of flowers per flowering truss.*—1.

*Position of inflorescence in relation to foliage.*—Above.

## Pedicel:

*Attitude of hairs.*—Upwards. 50

## Flower:

*Flower diameter (petal tip to petal tip on non-flattened flower).*—38.6 mm. 55

*Arrangement of petals.*—Touching.

*Calyx diameter.*—51.8 mm.

*Size of calyx in relation to corolla.*—Larger.

*Diameter of inner calyx relative to outer.*—Same size.

*Receptacle color.*—RHS 162B (Moderate yellow).

*Stamen.*—Present. 60

*Anther color.*—RHS 163B (Strong orange yellow).

*Pollen.*—Color: RHS 163B (Strong orange-yellow).

*Ovary.*—Length: 12.5 mm. Diameter: 8.1 mm. Color: RHS 151C (Strong greenish yellow).

*Stigma.*—Color: RHS 153C (Strong greenish yellow). 65

*Petal.*—Length in relation to width: Moderately longer.

Color of upper side: RHS NN155C (White). Color of

under side: RHS NN155C (White). Shape: Orbicular. Apex: Rounded. Base: Concavo-convex. Margin: Entire.

*Sepal.*—Length (sepal tip to point of attachment to receptacle): 24.5 mm. Width: 14.2 mm. Color: RHS 137B (Moderate olive green). Shape: Oval. Apex: Convex. Margin: Entire.

## Flowering:

*Time of beginning of flowering.*—Very early.

*Flowering interval.*—Mid-November to mid-May.

## Fruit:

*Size.*—Medium. Length: 48.3 mm. Width: 36.6 mm. Length/width ratio: 1.32. Length in relation to width: Moderately longer.

*Soluble solids in °Brix.*—6. 15

*Weight.*—27.1 grams.

*Fruit hollow.*—Length: 16.34 mm. Width: 3.56 mm. Hollow length/width ratio: 4.56.

*Shape.*—Conical.

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

*Fruit color.*—RHS 45A (Vivid red).

*Evenness of color.*—Even or very slightly uneven.

*Glossiness.*—Medium.

*Evenness of surface.*—Even or very slightly uneven.

*Width of band without achenes.*—Absent or very narrow. 25

*Position of achenes.*—Below surface.

*Achene color.*—RHS 146C (Moderate yellow-green).

*Position of calyx attachment.*—Level with fruit.

*Attitude of sepals.*—Upwards.

*Diameter of calyx in relation to diameter of fruit.*—Slightly larger.

*Adherence of calyx.*—Strong.

*Color of flesh (excluding core).*—RHS 44A (Vivid reddish orange). 35

*Evenness of color of the flesh.*—Even.

*Distribution of flesh color.*—Marginal and central.

*Color of core.*—RHS 44C (Vivid reddish orange).

*Fruiting.*—Time of beginning of fruit ripening: Very early. Harvest interval: Mid-December to mid-May. Type of bearing: Not remontant. Productivity: 1.4 kg to 1.7 kg of fruit per plant per season from 6.5-month-old plants when grown in Rociana, Huelva, Spain. 45

*Shipping and storage characteristics (post-harvest characteristics).*—Following harvest, fruit can be stored for 7-9 days if maintained under cooled temperatures that are standard for strawberry storage.

## 50 Resistance to pests:

*Powdery mildew (Podosphaera macularis).*—Moderately susceptible.

## COMPARISON WITH PARENTAL AND COMMERCIAL VARIETIES

‘DrisStrawEightyFour’ differs from the proprietary female parent ‘974AC033’ (unpatented) in that ‘DrisStrawEightyFour’ has a larger plant, smaller fruit, and better post-harvest qualities than ‘974AC033’. 60

‘DrisStrawEightyFour’ differs from the proprietary male parent ‘ES089.028’ (unpatented) in that ‘DrisStrawEightyFour’ has an earlier maturity and a larger fruit size than ‘ES089.028’.

‘DrisStrawEightyFour’ differs from the commercial variety ‘Florida Radiance’ (U.S. Plant Pat. No. 20,363), also known as ‘Florida Fortuna’, in that ‘DrisStrawEightyFour’

has a shorter and wider plant, less serrations per terminal leaflet, and inflorescence above foliage, whereas 'Florida Radiance' has a taller and narrower plant, more serrations per terminal leaflet, and inflorescence below foliage.

'DrisStrawEightyFour' differs from the commercial variety 'DrisStrawTwentySeven' (U.S. Plant Pat. No. 23,400) in that 'DrisStrawEightyFour' has dense foliage, crenate margins on terminal leaflets, an absent or very narrow width of band without achenes on fruit, and an absent or small fruit cavity, whereas 'DrisStrawTwentySeven' has medium density of foliage, serrate margins on terminal leaflets, a very broad width of band without achenes on fruit, and a large fruit cavity.

We claim:

1. A new and distinct variety of strawberry plant named 'DrisStrawEightyFour' as shown and described herein.

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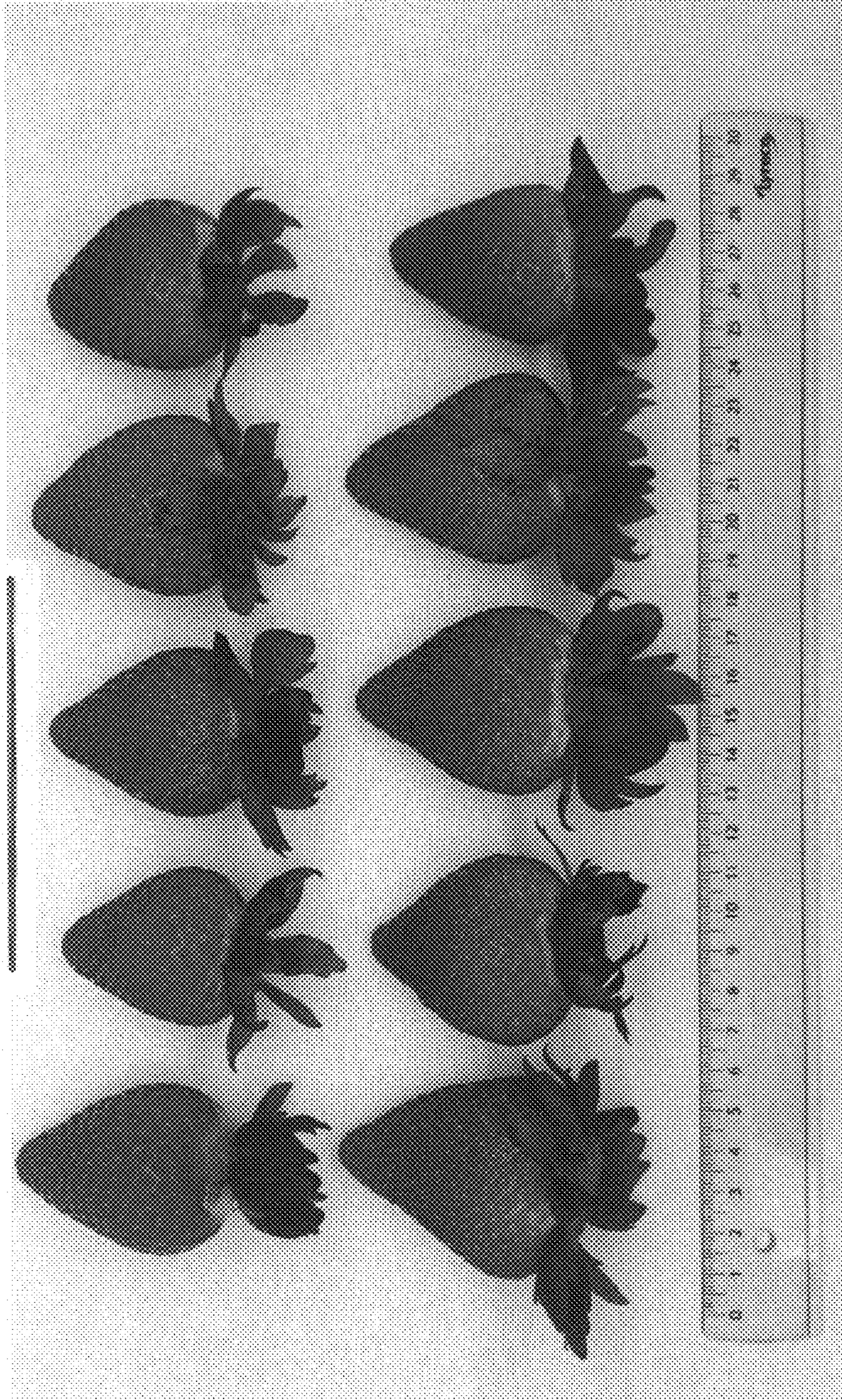


FIG. 1

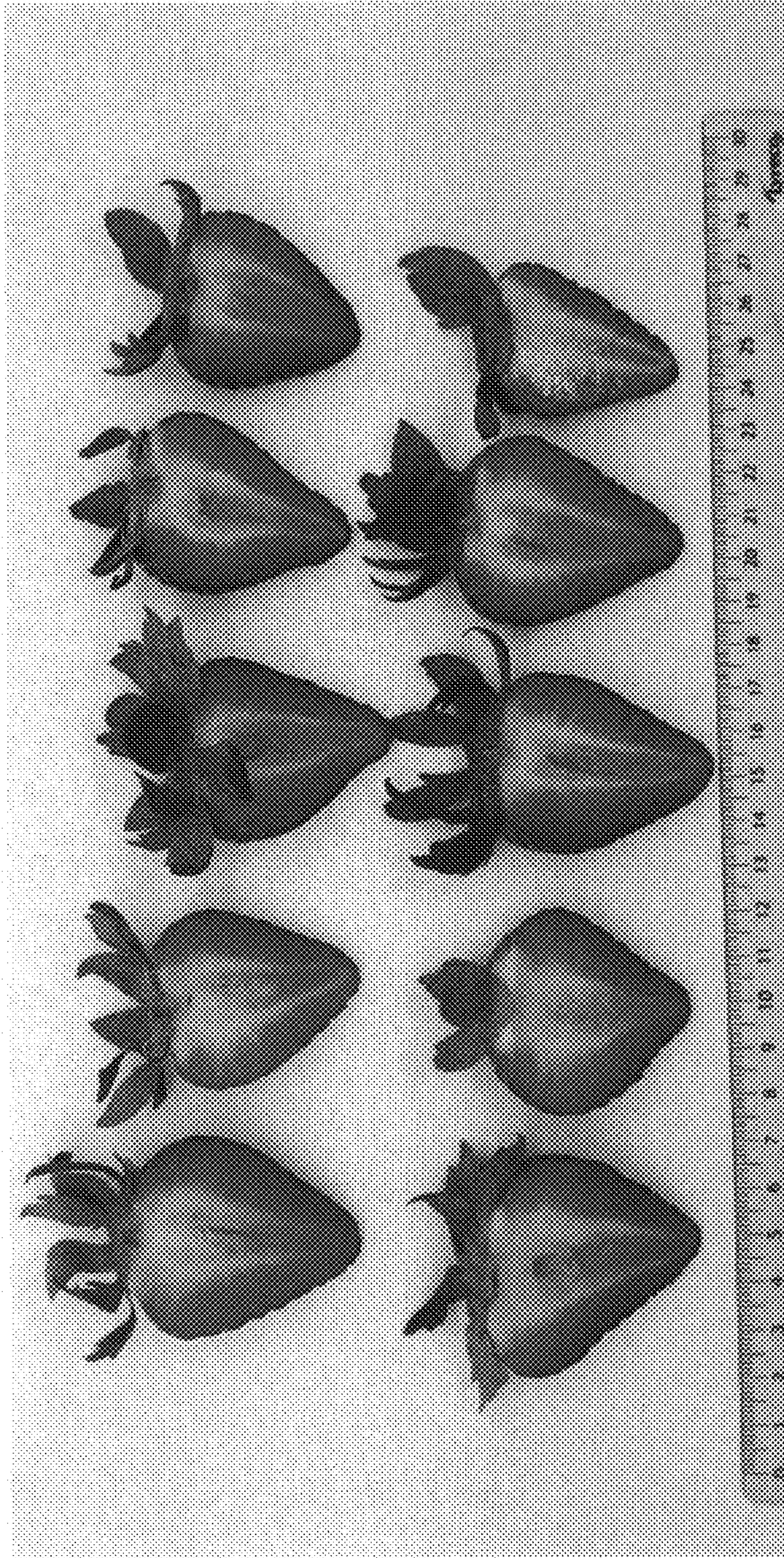


FIG. 2

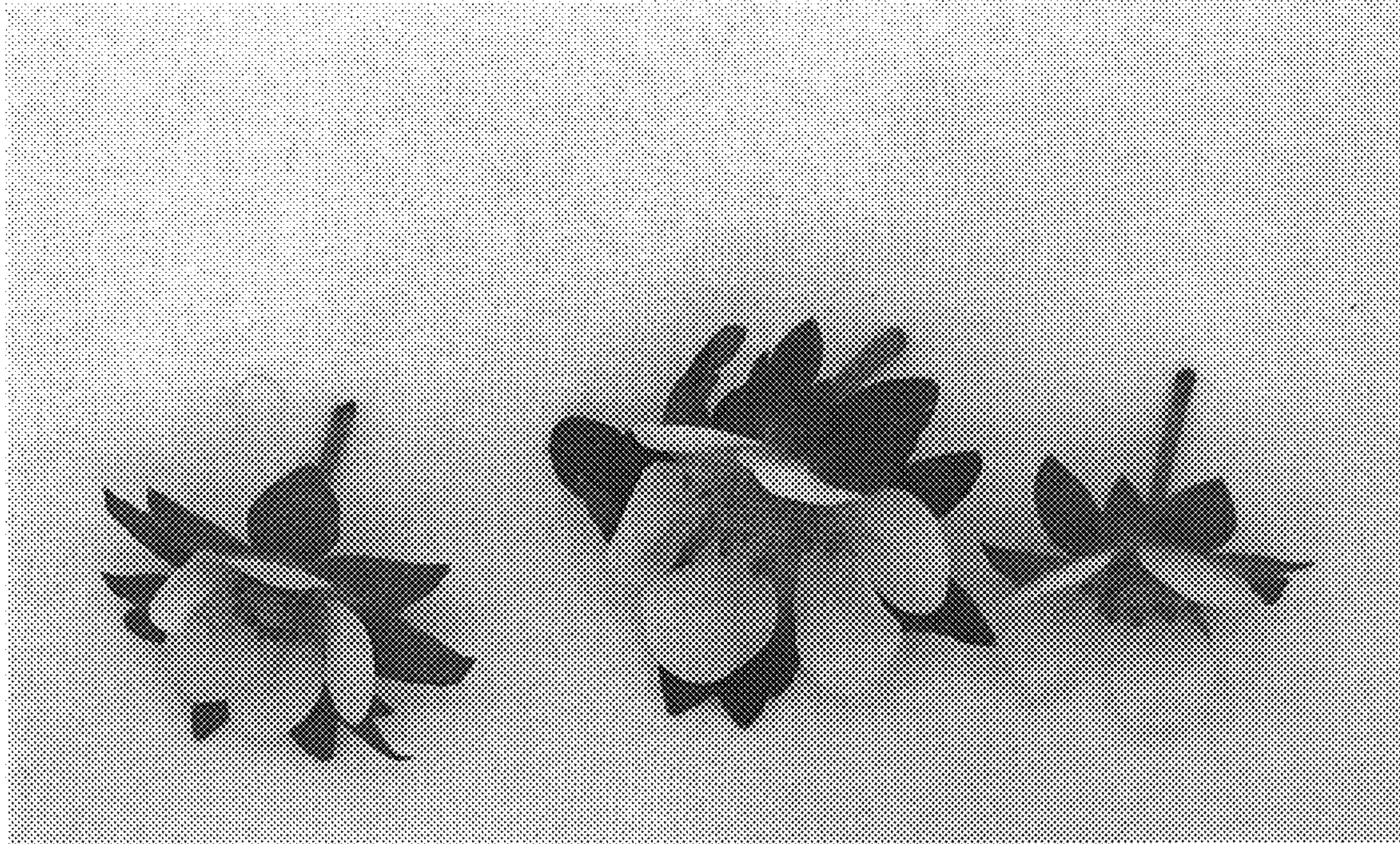


FIG. 3



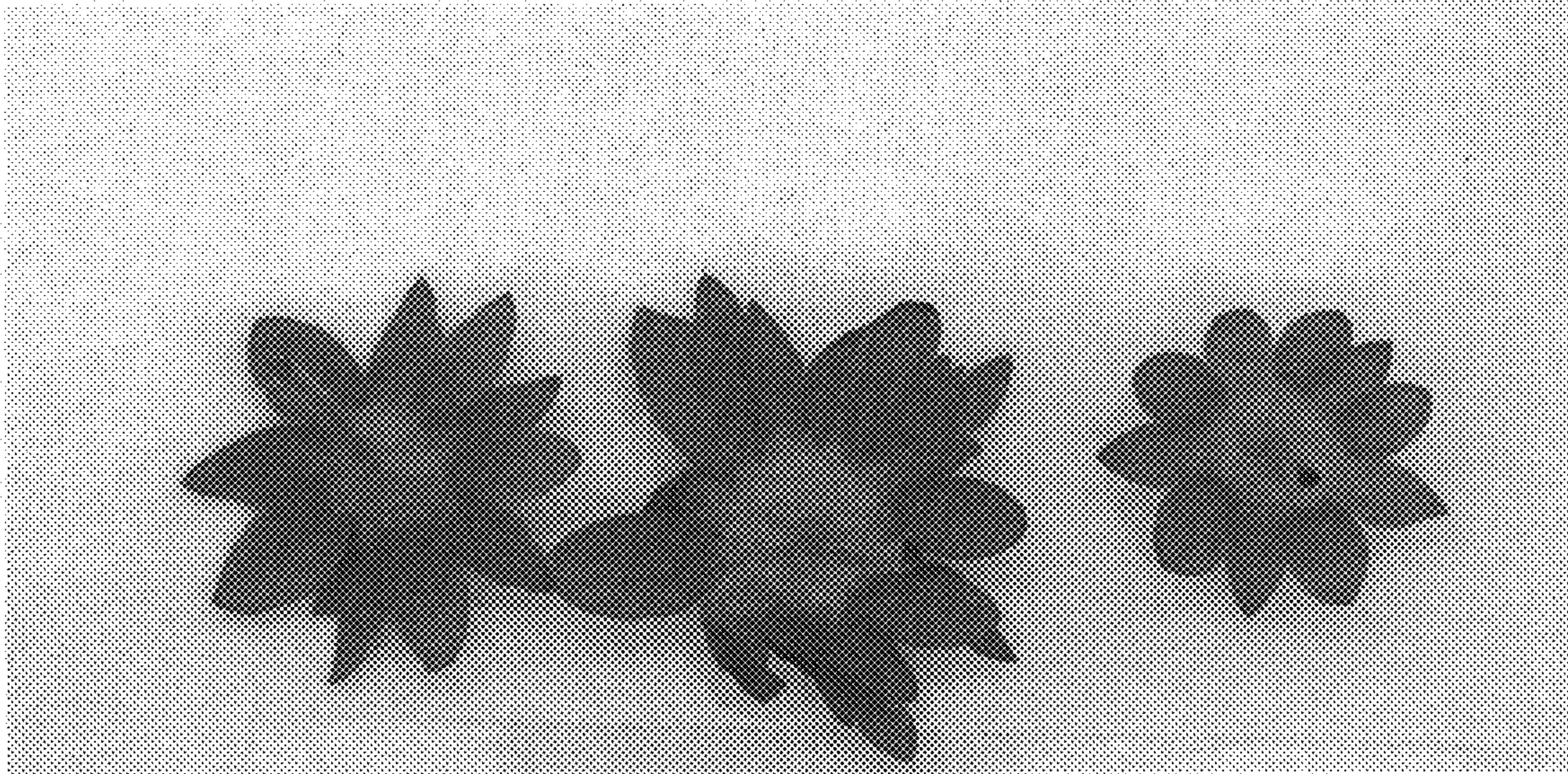


FIG. 4

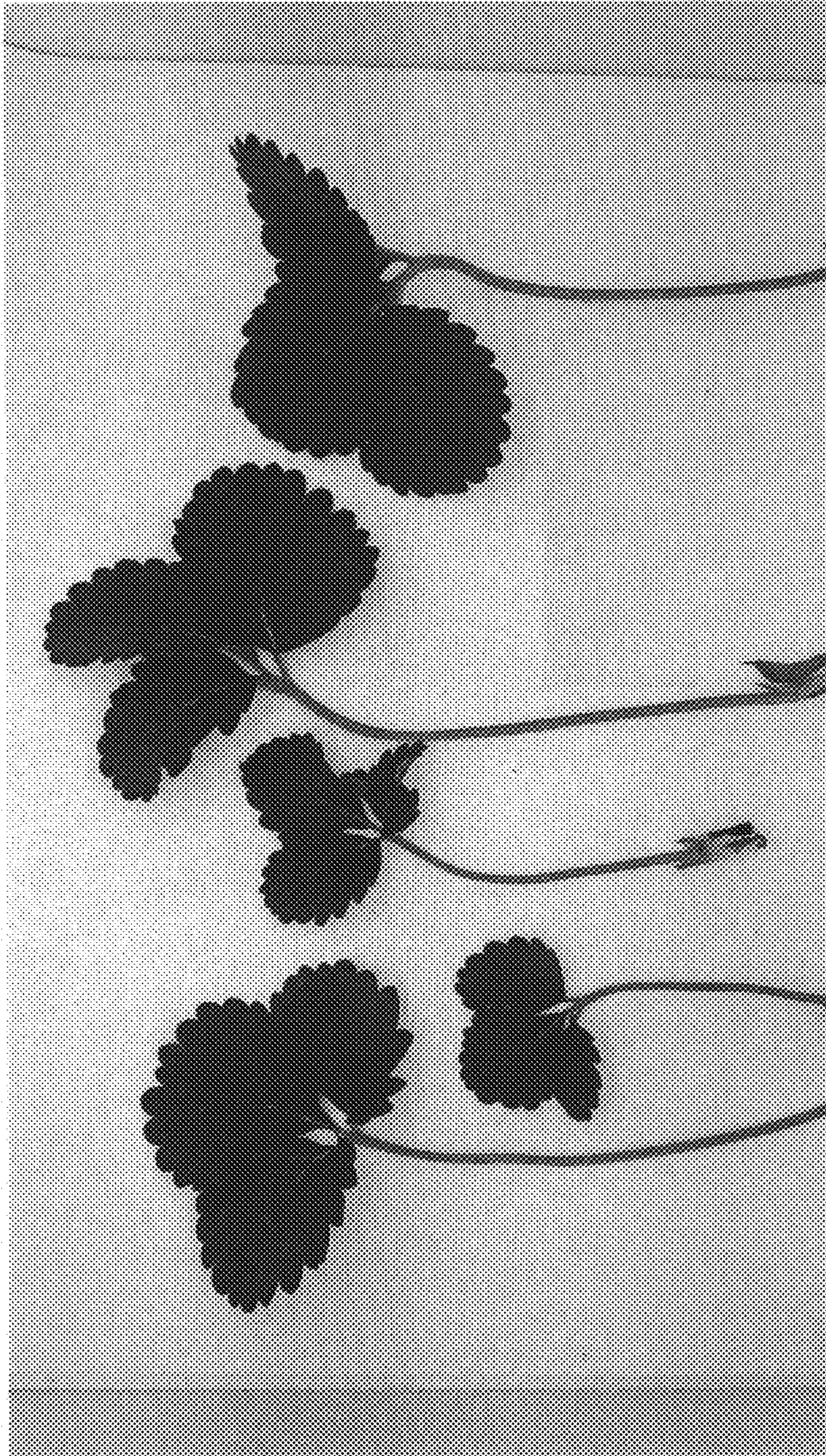


FIG. 5

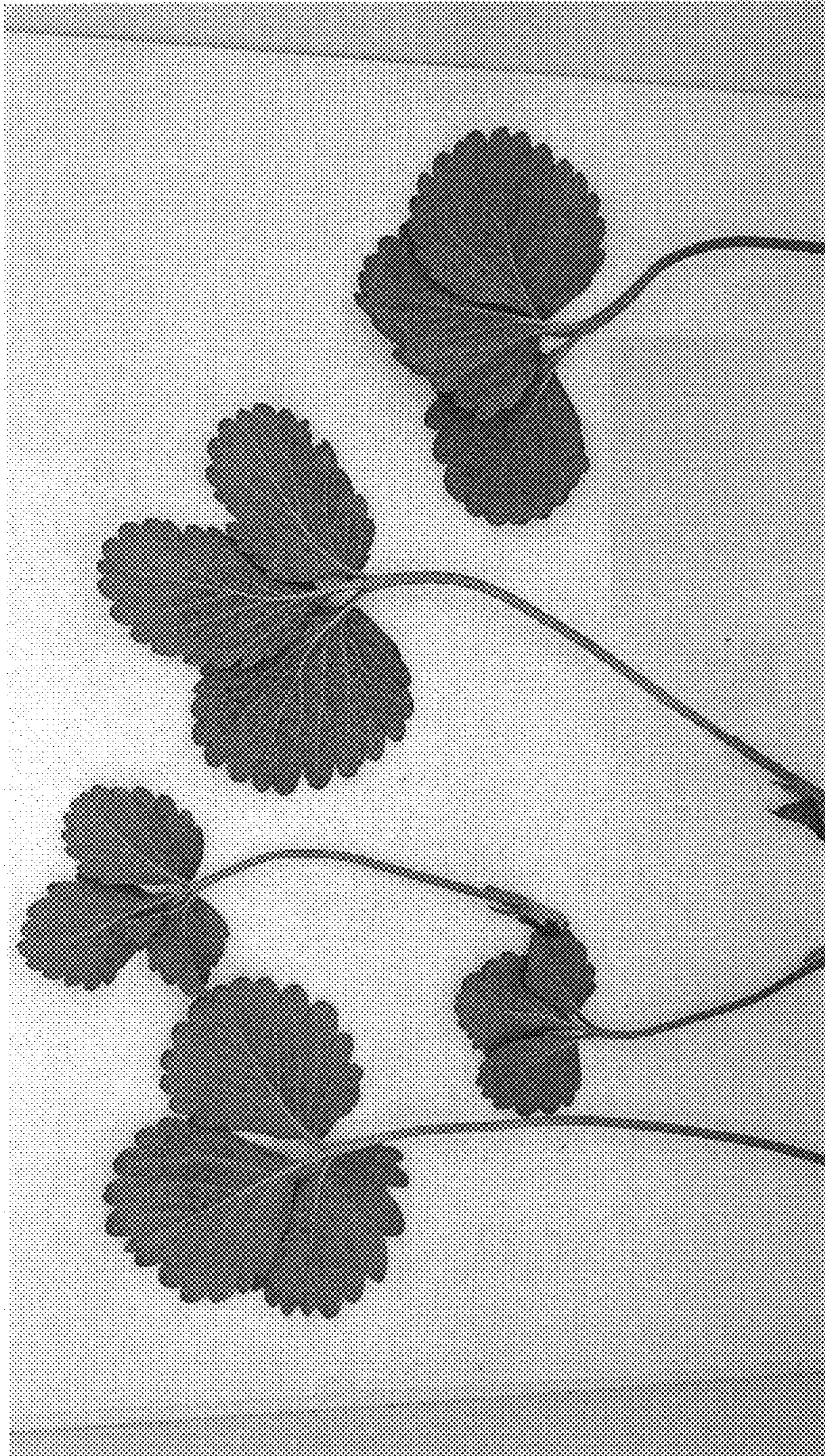


FIG. 6



FIG. 7



FIG. 8



FIG. 9