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**Pakozdi et al.**

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- (54) **STRAWBERRY PLANT NAMED ‘DRISSTRAWSEVENTYFOUR’**
- (50) Latin Name: *Fragaria x ananassa*  
Varietal Denomination: **DrisStrawSeventyFour**
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- (52) **U.S. Cl.**  
USPC ..... **Plt./209**
- (58) **Field of Classification Search**  
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See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS

PP1,745 P 8/1958 Lang  
PP3,981 P 11/1976 Bringhurst et al.  
PP4,487 P 11/1979 Bringhurst et al.  
PP4,538 P 5/1980 Bringhurst et al.  
PP5,262 P 7/1984 Voth et al.  
PP5,265 P 7/1984 Voth et al.  
PP5,266 P 7/1984 Bringhurst et al.  
PP5,300 P 10/1984 Johnson, Jr.  
PP5,480 P 5/1985 Nakagawa  
PP5,840 P 12/1986 Johnson, Jr. et al.  
PP6,191 P 5/1988 Johnson, Jr. et al.  
PP6,231 P 7/1988 Johnson, Jr. et al.  
PP6,578 P 1/1989 Voth et al.  
PP6,579 P 1/1989 Bringhurst et al.  
PP7,024 P 9/1989 Johnson, Jr. et al.  
PP7,172 P 2/1990 Voth et al.  
PP7,522 P 5/1991 Johnson, Jr. et al.  
PP7,614 P 8/1991 Bringhurst et al.  
PP7,615 P 8/1991 Bringhurst et al.  
PP8,086 P 1/1993 Nelson et al.  
PP8,205 P 4/1993 Nelson et al.  
PP8,649 P 3/1994 Sjulín et al.  
PP8,661 P 3/1994 Bringhurst et al.  
PP8,708 P 5/1994 Voth et al.  
PP8,745 P 5/1994 Sjulín et al.  
PP9,130 P 5/1995 Sjulín et al.  
PP9,909 P 6/1997 Ackerman et al.  
PP10,221 P 2/1998 Sjulín et al.  
PP10,534 P 8/1998 Sjulín et al.  
PP10,642 P 10/1998 Amorao et al.  
PP11,035 P 8/1999 Mowrey et al.  
PP11,277 P 3/2000 Gilford et al.  
PP11,279 P 3/2000 Gilford et al.  
PP11,522 P 9/2000 Amorao et al.  
PP11,548 P 10/2000 Amorao et al.

PP11,554 P 10/2000 Sjulín et al.  
PP11,639 P 11/2000 Mowrey et al.  
PP12,186 P2 11/2001 Gilford et al.  
PP12,436 P2 3/2002 Amorao et al.  
PP12,577 P2 4/2002 Amorao et al.  
PP12,817 P2 7/2002 Gilford et al.  
PP12,889 P2 8/2002 Lamb et al.  
PP12,899 P2 9/2002 Mowrey et al.  
PP13,386 P2 12/2002 Mowrey et al.  
PP13,469 P3 1/2003 Larson et al.  
PP14,005 P3 7/2003 Amorao et al.  
PP14,062 P3 8/2003 Amorao et al.  
PP14,109 P3 8/2003 Gilford et al.  
PP14,771 P3 5/2004 Amorao et al.  
PP15,145 P2 9/2004 Mowrey et al.  
PP15,308 P2 11/2004 Sjulín et al.  
PP15,375 P2 11/2004 Mowry et al.  
PP15,435 P2 12/2004 Sjulín et al.  
PP15,596 P2 3/2005 Amorao et al.  
PP15,731 P2 4/2005 Amorao et al.  
PP15,752 P2 5/2005 Gilford et al.  
PP16,070 P2 10/2005 Gilford et al.  
PP16,238 P2 2/2006 Amorao et al.  
PP16,241 P2 2/2006 Mowrey et al.  
PP16,298 P2 2/2006 Gilford et al.  
PP16,299 P2 2/2006 Gilford et al.  
PP16,475 P2 4/2006 Gilford et al.  
PP16,558 P3 5/2006 López  
PP18,000 P2 9/2007 Meulenbroek  
PP18,040 P3 9/2007 Mowrey et al.  
PP18,041 P3 9/2007 Gilford  
PP18,458 P2 1/2008 Ferguson et al.  
PP18,575 P3 3/2008 Amorao et al.  
PP18,878 P2 6/2008 Mowrey et al.  
PP19,240 P2 9/2008 Gilford et al.  
PP19,673 P3 2/2009 Ferguson et al.  
PP19,767 P2 2/2009 Shaw et al.  
PP20,248 P3 9/2009 Rogers et al.  
PP20,363 P2 9/2009 Chandler  
PP20,701 P2 2/2010 Gilford et al.  
PP20,731 P2 2/2010 Mowrey et al.  
PP20,733 P2 2/2010 Mowrey et al.  
PP20,735 P2 2/2010 Ferguson

(Continued)

OTHER PUBLICATIONS

“An Early Season with Many highs”, Berry Gardens, Available Online at <<https://www.berrygardens.co.uk/an-early-season-with-many-highs/>>, Aug. 21, 2017, 6 pages.  
Fear et al., Unpublished U.S. Appl. No. 15/998,014, filed Jun. 11, 2018; titled “Strawberry Plant Variety Named ‘DrisStrawFiftyEight’”.  
Ferguson et al. Unpublished U.S. Appl. No. 15/998,317, filed Aug. 3, 2018, titled “Strawberry Plant Variety Named ‘DrisStrawSixty’”.  
Katie, “My Green Pod”, Available online at <<https://www.mygreenpod.com/articles/its-strawberry-time/>>, May 30, 2017, 3 pages.

(Continued)

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(57) **ABSTRACT**

A new and distinct variety of strawberry plant named ‘DrisStrawSeventyFour’, selected for its big fruit size, improved shelf life, and unique delicate floral flavor, is disclosed.

4 Drawing Sheets

(56)

**References Cited**

## U.S. PATENT DOCUMENTS

PP20,775 P2 2/2010 Mowrey et al.  
 PP20,922 P2 4/2010 Gilford et al.  
 PP21,538 P2 11/2010 Gilford et al.  
 PP21,559 P2 12/2010 Ferguson et al.  
 PP21,762 P2 3/2011 Stewart et al.  
 PP22,040 P3 7/2011 Stewart et al.  
 PP22,218 P2 11/2011 Ferguson  
 PP22,247 P2 11/2011 Ferguson  
 PP23,107 P2 10/2012 Ferguson et al.  
 PP23,148 P2 10/2012 Gilford et al.  
 PP23,377 P2 2/2013 Ferguson et al.  
 PP23,378 P2 2/2013 Pullen et al.  
 PP23,382 P2 2/2013 Ferguson et al.  
 PP23,383 P2 2/2013 Ferguson et al.  
 PP23,400 P2 2/2013 Ferguson et al.  
 PP23,401 P2 2/2013 Pullen et al.  
 PP23,459 P2 3/2013 Stewart et al.  
 PP23,506 P3 4/2013 Ferguson et al.  
 PP23,517 P3 4/2013 Ferguson et al.  
 PP24,096 P3 12/2013 Fear et al.  
 PP24,317 P3 3/2014 Ferguson et al.  
 PP24,333 P3 3/2014 Vitten et al.  
 PP24,395 P3 4/2014 Vitten et al.  
 PP24,533 P3 6/2014 Ferguson et al.  
 PP24,745 P2 8/2014 Vitten et al.  
 PP25,408 P3 4/2015 Vitten et al.  
 PP25,437 P3 4/2015 Vitten et al.  
 PP25,698 P3 7/2015 Ferguson et al.  
 PP25,699 P3 7/2015 Stewart et al.  
 PP25,747 P3 7/2015 Kibbe et al.  
 PP25,866 P3 9/2015 Ferguson et al.  
 PP26,800 P3 6/2016 Stewart et al.  
 PP26,801 P3 6/2016 Stewart et al.  
 PP26,802 P3 6/2016 Rodriguez Alcazar et al.  
 PP27,442 P2 12/2016 Kibbe et al.  
 PP27,645 P3 2/2017 Vitten et al.  
 PP27,682 P3 2/2017 Kibbe et al.  
 PP27,711 P3 2/2017 Vitten et al.  
 PP27,813 P3 3/2017 Ferguson et al.  
 PP29,289 P3 5/2018 Vitten et al.  
 PP29,728 P2 10/2018 Stewart et al.

PP29,729 P2 10/2018 Kibbe et al.  
 PP29,730 P2 10/2018 Kibbe et al.  
 PP29,731 P2 10/2018 Ferguson et al.  
 PP29,747 P2 10/2018 Vitten et al.  
 PP29,748 P2 10/2018 Vitten et al.  
 PP29,749 P2 10/2018 Stewart et al.  
 2003/0079263 P1 4/2003 Gilford et al.  
 2013/0276182 P1 10/2013 Fear et al.

## OTHER PUBLICATIONS

Mendoza et al., Unpublished U.S. Appl. No. 16/350,139, filed Oct. 2, 2018, titled "Strawberry Plant Variety Named 'Dris-StrawSixtySeven'".  
 Mendoza et al., Unpublished U.S. Appl. No. 15/998,020, filed Jun. 12, 2018, titled "Strawberry Plant Variety Named 'Dris-StrawSixtyOne'".  
 Mendoza et al., Unpublished U.S. Appl. No. 15/998,169, filed Jul. 12, 2018, titled "Strawberry Plant Variety Named 'Dris-StrawSixtyThree'".  
 Mendoza et al., Unpublished U.S. Appl. No. 15/998,170, filed Jul. 12, 2018, titled "Strawberry Plant Variety Named 'Dris-StrawSixtyTwo'".  
 Pakozdi et al., Unpublished U.S. Appl. No. 15/998,015, filed Jun. 11, 2018, titled "Strawberry Plant Variety Named 'Dris-StrawFiftyNine'".  
 Pakozdi et al., Unpublished U.S. Appl. No. 15/998,028, filed Jun. 14, 2018, titled "Strawberry Plant Variety Named 'Dris-StrawSixtyFive'".  
 Pakozdi et al., Unpublished U.S. Appl. No. 16/501,198, filed Mar. 5, 2019, titled "Strawberry Plant Variety Named 'Dris-StrawSeventyThree'".  
 Pakozdi et al., Unpublished U.S. Appl. No. 16/501,200, filed Mar. 5, 2019, titled "Strawberry Plant Variety Named 'Dris-StrawSeventyTwo'".  
 Stewart et al., Unpublished U.S. Appl. No. 15/998,031, filed Jun. 14, 2018, titled "Strawberry Plant Variety Named 'DrisStrawSixtyFour'".  
 Stewart et al., Unpublished U.S. Appl. No. 16/350,432, filed Nov. 14, 2018, titled "Strawberry Plant Variety Named 'Dris-StrawSixtySix'".

## 1

**STRAWBERRY PLANT NAMED  
'DRISSTRAWSEVENTYFOUR'**

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

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

**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 'DrisStrawSeventyFour'.

Strawberry plant variety 'DrisStrawSeventyFour' was discovered in East Malling, Kent, United Kingdom in 2014, and originated from a cross between the female parent 'WUKE 085-001' (unpatented) and the male parent 'WUKE 141-002' (unpatented). 'DrisStrawSeventyFour' was first asexually propagated via stolons in the Netherlands in August of 2014.

'DrisStrawSeventyFour' was subsequently asexually propagated via stolons and underwent further testing in East Malling, Kent, United Kingdom for 5 years (2014 to 2018). The present variety has been found to be stable and reproduce true to type through successive asexual propagations via stolons.

'DrisStrawSeventyFour' exhibits the following distinguishing characteristics when grown under normal horticultural practices in East Malling, Kent, United Kingdom:

1. Dense foliage;
2. Achenes level with surface of fruit;
3. Calyx attachment inserted in fruit; and
4. Attitude of sepals upwards from fruit.

## 2

'DrisStrawSeventyFour' was selected for its fruit size, improved shelf life, and unique delicate floral flavor.

**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. The photographs are of plants that are ten months old.

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

FIG. 2 illustrates the longitudinal sections of fruit of variety 'DrisStrawSeventyFour'.

FIG. 3 illustrates the lower surfaces of flowers of variety 'DrisStrawSeventyFour'.

FIG. 4 illustrates plants of variety 'DrisStrawSeventyFour'.

**DESCRIPTION OF THE NEW VARIETY**

The following detailed descriptions set forth the distinctive characteristics of 'DrisStrawSeventyFour'. The data which define these characteristics is based on observations taken in East Malling, Kent, United Kingdom from 2014 to 2018. 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. 'DrisStrawSeventyFour' has not been observed under all possible environmental conditions. The botanical description of 'DrisStrawSeventyFour' was taken from plants that were ten months old. The indicated values represent averages calculated from measurements of several plants. Color references are primarily to The RHS Colour Chart of The Royal Horticultural Society of London (RHS) (2007 edition). Descriptive terminology follows the *Plant Identification Terminology, An Illustrated Glossary*, 2<sup>nd</sup> edition by James G. Harris and Melinda Wolf Harris, unless where otherwise defined.

**DETAILED BOTANICAL DESCRIPTION OF  
THE PLANT**

**Classification:**

*Species.*—*Fragaria x ananassa*.

*Common name.*—Strawberry.

*Denomination.*—'DrisStrawSeventyFour'.

**Parentage:**

*Female parent.*—Strawberry variety 'WUKE 085-001' (unpatented).

*Male parent.*—Strawberry variety 'WUKE 141-002' (unpatented).

**Plant:**

*Height.*—40.4 cm.

*Diameter.*—44.9 cm.

*Number of crowns per plant.*—5.2.

*Growth habit.*—Upright.

**Stolon:**

*Average number of daughter plants per square foot.*—32-41.

*Diameter at bract.*—2.5 mm.

*Anthocyanin coloration.*—Present.

*Anthocyanin color.*—RHS 174B (Greyish reddish orange).

*Stolon color.*—RHS 144C (Strong yellow-green).

*Length.*—22.6 cm.

## Leaf:

*Number of leaflets.*—Three only.

*Color of upper surface.*—RHS N134A (Dark yellowish green).

*Color of lower surface.*—RHS 138B (Moderate yellow-green). 5

*Venation pattern.*—Pinnate.

*Variation.*—Absent.

*Terminal leaflets.*—Length: 8.1 cm. Width: 7.3 cm. Length/width ratio: 1.1. Number of teeth/terminal leaflet: 17.5. Shape of base: Obtuse. Margin: Serrate to crenate. Shape in cross section: Concave. 10

*Petiole.*—Length: 23.3 cm. Diameter: 3.0 mm. Attitude of hairs: Slightly outwards. Bract frequency (number present on each petiole): 1. Color: RHS 145A (Strong yellow-green). 15

*Petiolule.*—Length: 6.2 mm. Diameter: 2.2 mm. Color: RHS 145B (Light yellow-green).

*Stipule.*—Length: 2.1 cm. Width: 7.9 mm. Anthocyanin coloration: Absent or very weak.

## Inflorescence:

*Position in relation to foliage.*—Above.

*Peduncle.*—Length: 3.5 cm. Diameter: 0.5 cm. Color: RHS 143C (Strong yellow-green).

*Pedicel.*—Attitude of hairs: Slightly outwards. 25

*Flower bud.*—Length: 5 mm. Diameter: 6 mm. Color: RHS 144A (Strong yellow-green).

*Flower.*—Flower diameter (petal tip to petal tip on non-flattened flower): 27.3 mm. Typical and observed number of flowers per plant: 33. Arrangement of petals: Overlapping. Stamen: Present. 30

*Petal.*—Length: 10.8 mm. Width: 11.9 mm. Length/width ratio: 0.9. Typical and observed petal number: 5.5. Color of upper side: RHS NN155C (White). Color of underside: RHS 155C (Greenish white). Shape of apex: Rounded. Shape of base: Concave to convex. Margin: Erode. 35

*Calyx.*—Diameter (sepal tip to sepal tip, measured on back of flower): 35.9 mm.

*Sepal.*—Length (sepal tip to point of attachment to receptacle): 11.1 mm. Width: 6.1 mm. Typical and observed sepal number: 5.3. Color: RHS 141A (Deep yellowish green). 40

## Fruit:

*Length.*—37.3 mm.

*Width.*—34.5 mm.

*Length/width ratio.*—1.1.

*Fruit hollow length.*—18.4 mm.

*Fruit hollow width.*—11.3 mm.

*Fruit hollow length/width ratio.*—1.6.

*Shape.*—Conical.

*Color.*—RHS 33B (Vivid reddish orange).

*Position of achenes.*—Level with surface.

*Position of calyx attachment.*—Inserted.

*Attitude of sepals.*—Upwards. 50

*Color of flesh (excluding core).*—RHS 31B (Strong yellowish pink).

*Color of core.*—RHS 11D (Pale yellow).

*Average weight per berry.*—19.6 grams.

## Production:

*Flowering interval.*—Late April to early September.

*Harvest interval.*—Mid-May to late September.

*Type of bearing.*—Fully remontant.

*Productivity.*—1.150 kg to 1.350 kg of fruit per plant per season from nine- to twelve-month-old plants when grown in East Malling, Kent, United Kingdom.

## Resistance to diseases:

*Verticillium wilt.*—Moderately susceptible.

## COMPARISON WITH PARENTAL AND COMMERCIAL VARIETIES

‘DrisStrawSeventyFour’ differs from the female parent ‘WUKE 085-001’ (unpatented) in that ‘DrisStrawSeventyFour’ is more productive, has a shorter shelf life, and has a less seedy and thus better fruit appearance as compared to ‘WUKE 085-001’.

‘DrisStrawSeventyFour’ differs from the male parent ‘WUKE 141-002’ (unpatented) in that ‘DrisStrawSeventyFour’ is more vigorous and productive as compared to ‘WUKE 141-002’. Further, ‘DrisStrawSeventyFour’ produces fruit that are better-tasting, sweeter, and larger in size as compared to ‘WUKE 141-002’. In addition, fruit of ‘DrisStrawSeventyFour’ have a shorter shelf life as compared to fruit of ‘WUKE 141-002’.

‘DrisStrawSeventyFour’ differs from the commercial variety ‘DrisStrawFiftyEight’ (U.S. Plant Pat. No. 30,851) in that plants of ‘DrisStrawSeventyFour’ have dense foliage, whereas plants of ‘DrisStrawFiftyEight’ have medium foliage. Further, fruit of ‘DrisStrawSeventyFour’ have achenes level with surface, whereas fruit of ‘DrisStrawFiftyEight’ have achenes below surface. Moreover, fruit of ‘DrisStrawSeventyFour’ have calyx attachment inserted in fruit, whereas fruit of ‘DrisStrawFiftyEight’ have calyx attachment level with fruit. In addition, fruit of ‘DrisStrawSeventyFour’ have an upwards attitude of sepals, whereas fruit of ‘DrisStrawFiftyEight’ have an outwards attitude of sepals.

‘DrisStrawSeventyFour’ differs from the commercial variety ‘DrisStrawFiftyNine’ (U.S. Plant Pat. No. 31,233) in that plants of ‘DrisStrawSeventyFour’ have an upright growth habit, whereas plants of ‘DrisStrawFiftyNine’ have a semi-upright growth habit. Further, stolons of ‘DrisStrawSeventyFour’ have strong anthocyanin coloration, whereas stolons of ‘DrisStrawFiftyNine’ have absent or very weak anthocyanin coloration. Moreover, terminal leaflets of ‘DrisStrawSeventyFour’ have a serrate to crenate margin, whereas terminal leaflets of ‘DrisStrawFiftyNine’ have a crenate margin. Additionally, fruit of ‘DrisStrawSeventyFour’ have calyx attachment inserted in fruit, whereas fruit of ‘DrisStrawFiftyNine’ have calyx attachment level with fruit. Lastly, ‘DrisStrawSeventyFour’ is less productive as compared to ‘DrisStrawFiftyNine’.

## We claim:

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

\* \* \* \* \*

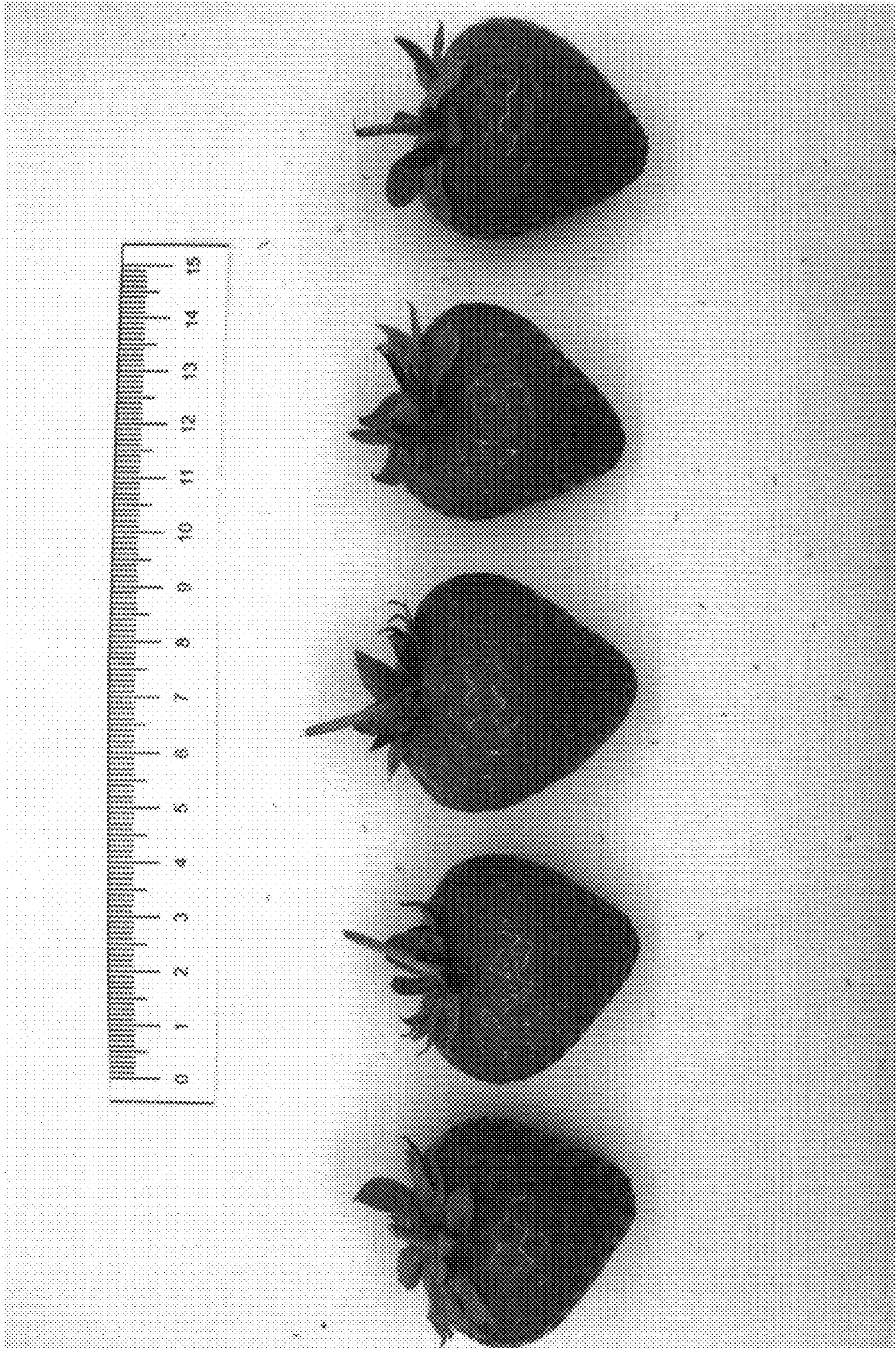


FIG. 1

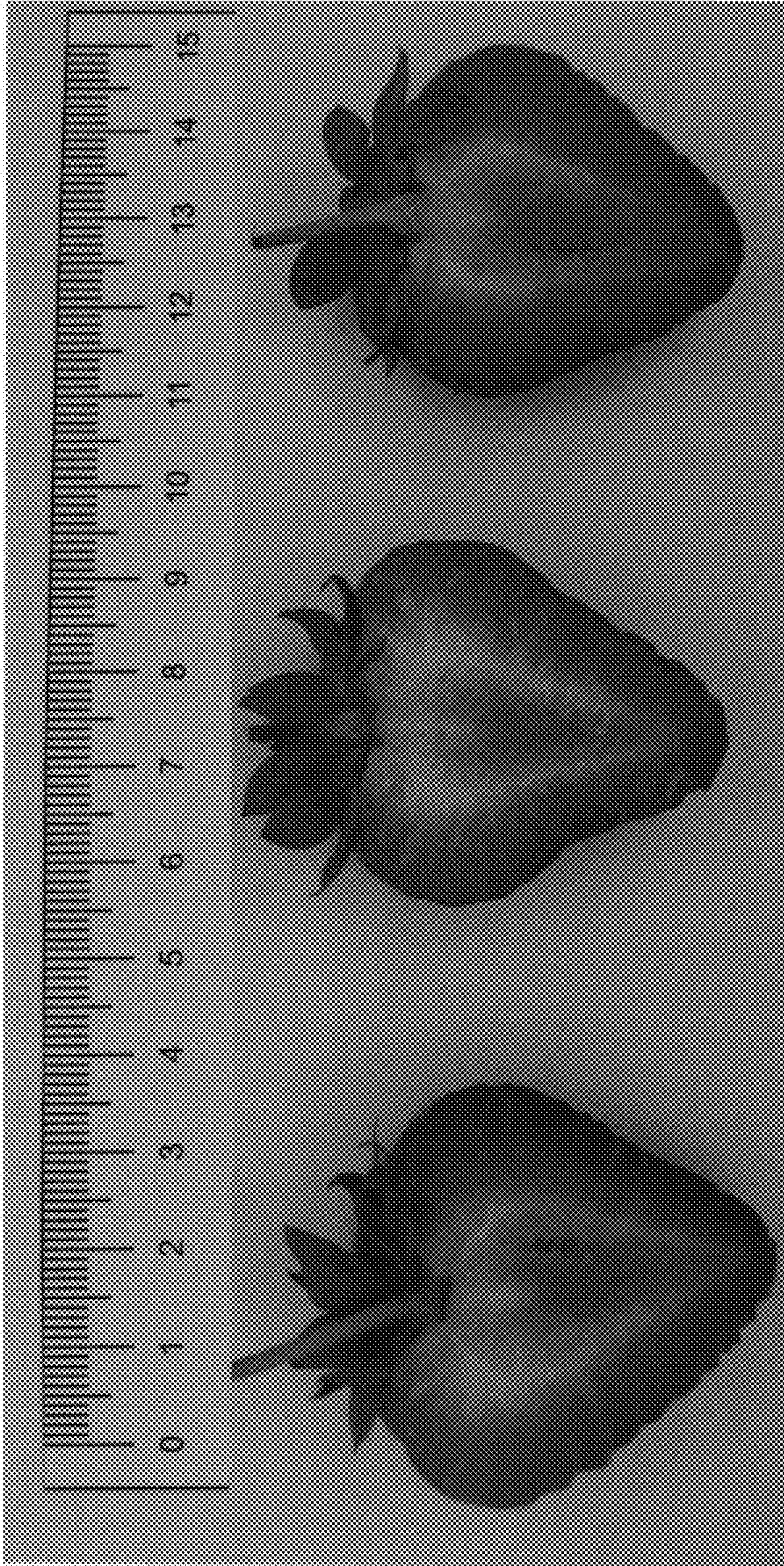


FIG. 2

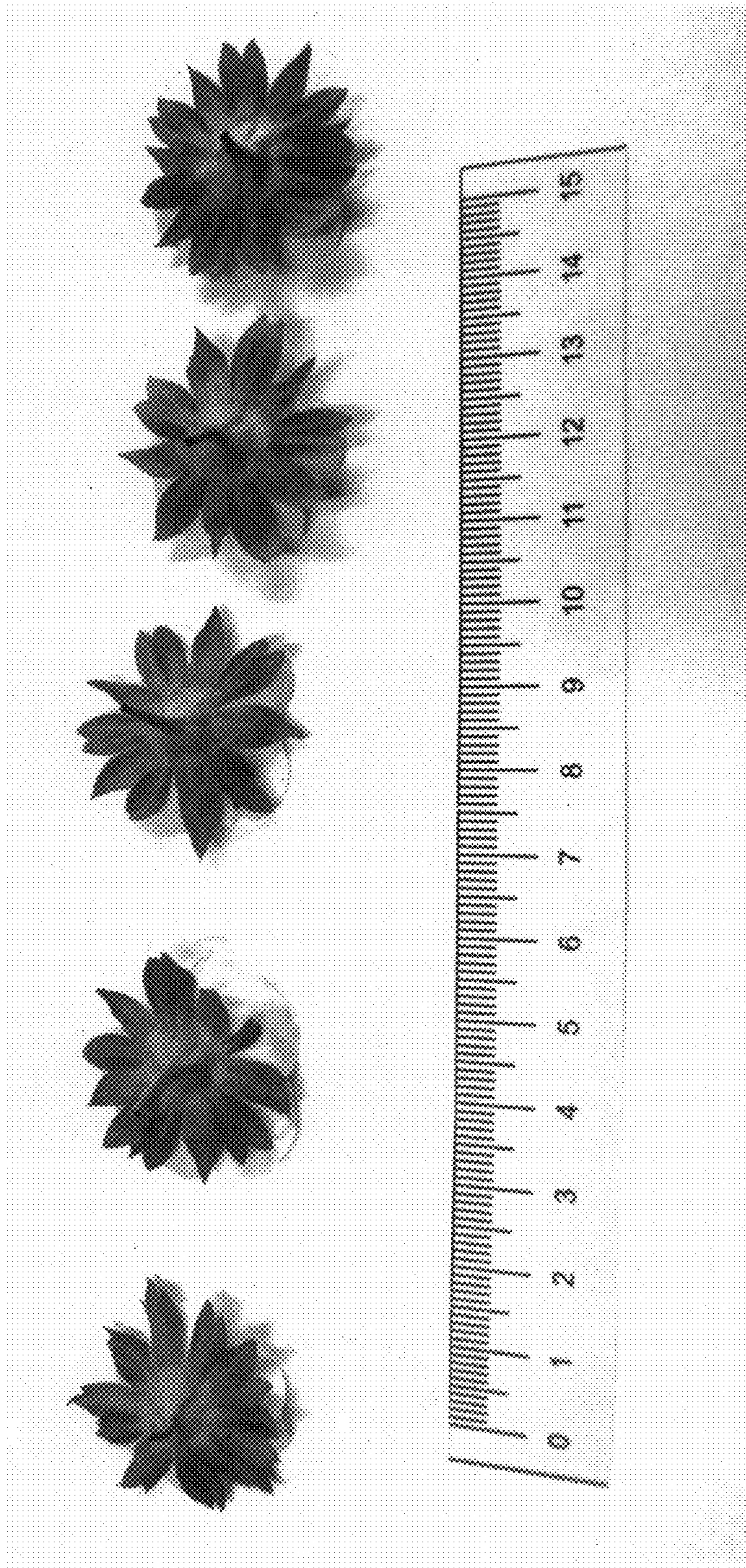


FIG. 3



FIG. 4