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[54]	STRAWBE	RRY PLANT SAAID
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[51]	Int. Cl.5	

[30]	Foreign Application I	Priority Data
Mai	r. 17, 1989 [IL] Israel	
	Int. Cl. ⁵	
	U.S. Cl. Field of Search	
[56]	References C	

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Attorney, Agent, or Firm—Pennie & Edmonds

[57] ABSTRACT

A new and distinct variety of strawberry (Fragaria L.) called "Saaid" is disclosed. The variety is a cross between "Rachel" and "Douglas", which results in a variety that flowers several months earlier than other known strawberry varieties.

2 Drawing Sheets

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This is a continuation of application Ser. No. 07/491,758 filed Mar. 6, 1990, now abandoned.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct variety of strawberry (Fragaria L.) called "Saaid". The variety was developed from an organized scientifically designated breeding program carried out at the Agricultural Research Organization, the Volcani Center, Bet Dagan, Israel. The variety is the product of selection of seedlings resulting from crosses between the strawberry varieties "Rachel" and "Douglas". The variety was asexually vegetatively propagated through runners and the reproduction ran true.

SUMMARY OF THE INVENTION

The new variety "Saaid" resembles the variety "Douglas" and is able to grow in September and produce fruit starting in early December and lasting until summer. The production of fruit beginning in early 20 December is two months earlier than any known variety of Fragaria L. The fruit of the "Saaid" variety is characterized by good taste, good shape and size as well as a long shelf life.

BRIEF DESCRIPTION OF THE FIGURES

FIG. 1. Photograph of the "Saaid" variety illustrating the foliage and fruit.

FIG. 2. Photograph of the "Saaid" variety illustrating the fruit.

FIG. 3. Photograph of the "Saaid" variety illustrating the entire plant with both flowers and fruit.

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DETAILED BOTANICAL DESCRIPTION OF THE INVENTION

The "Saaid" variety was grown in winter under polyethylene tunnels in Isreal. "Saaid" is a short day variety that flowers earlier than other known and available short day length strawberry varieties. Flowering and fruit production is not affected by the use of polyethylene wind tunnels. This production procedure is utilized in normal agricultural practices by the skilled artisan and does not involve temperature or light control. Mother plants were stored at 0° C. from January through April. They were then planted in the nursery without further treatment. Runners with plantlets were produced during summer. These young plantlets were collected from the nursery in September and transferred to raised beds. Average temperatures at that time of the year are 30° C. during the day and 22° C. at night. Water and fertilizers were applied through drip irrigation. An exaple of an optimum planting date is between September 20th to the 25th with the approximate date of flowering on November 4, and the approximate date of first fruiting on December 4. "Saaid" flowering is not induced by chilling, but by natural exposure to short day length (long nights) characteristic of late fall and early winter. Color readings described herein were taken under natural light conditions and color identifications were made by reference to The Royal Horticultural Society Colour Chart (R.H.S.C.C.) except where common terms of color definition are employed.

The pertinent characteristics of the present invention are presented in Table 1 and Table 2. Additionally, the

variety "Saaid" (1) has no tendency toward fruit malformation; (2) disease resistance appears normal in that no particular problematic conditions arose during trials; and (3) the type of bearing is not remontant (e.g., "Saaid" blooms perpetuously, during late fall and winter).

The fruit is longer than broad, with primary, secondary and tertiary fruit of moderately distinct shape (Table 2). The fruit is firm with a red color (Table 2).

The variety "Saaid" flowers several months earlier than known strawberry varieties. One of the closest known varieties would be "Karina" (Table 1) as well as the new varieties under co-pending U.S. patent application Ser. Nos. 07/735,969 ("Sharon"), 07/735,695 ("Shalom"), 07/735,967 ("Smadar"), and 07/735,968 ("Dorit"). Additionally, early flowering results in early fruit production for "Saaid" and the four co-pending varieties (Table 3). Total Soluble Solids (TSS), percent acidity and aroma are presented in Table 4 by comparison to the varieties listed in Table 3.

TARLE 1

	TABLE 1	
PLANT CH	ARACTERISTICS O	F "SAAID"
MORPHOLOGICAL TRAIT	DESCRIPTION	COMPARABLE VARIETY ^b
Classification	Botanical-	
	Fragaria L.	
Plant habit	Globose	"Gorella"
Plant density	De nse	"Talisman"
Plant vigor	Strong	"Grande"
Leaf:		•
a) Length	17-18 cm	
b) Width	11-14 cm	
c) Color	Green Group 146 A	
•	(RHSCC)	
1) Upper Side:	Dark Green	
d) Blistering	Weak	
e) Cross-section	Concave	
f) # of leaflets	Three only	
Terminal leaflet		
a) Length/Width		
ratio	Longer than broad	
b) Shape of base	Acute	
c) Shape of teeth	Rounded	
d) Length	7-8 cm	
e) Width	5-6 cm	
Flower		
a) Size	Medium	"Gorella"
b) Size of calyx to	Same Size	Corcina
corolla	Danie Oite	
c) Size of inner calyx	Same Size	•
versus outer calyx		
d) Spacing of petals	Overlapping	
e) Petal length/width	As load as broad	
f) Time of flowering	Early to Medium	"Karina" ^c
Stolon		
a) Number	Medium	"Gorella"
b) Thickness	Medium	
c) Pubescence	Weak	•
d) Anthocyanin	Strong	
coloration		
Petiole		
a) Pose of hairs	Outwards	•
b) Length	10-12 cm	
Inflorescence	10-12 CIII	
a) Position relative	Level	
to foliage		

[&]quot;The description of "Saaid" is based on the test guidelines for Fragaria L. of the International Union for the Protection of New Plant Varieties. (UPOV).

Only characteristics which are relevant for comparing varieties are listed.

"Saaid" flowers at the beginning of November. One of the earliest known varieties for comparison is "Karina", which flowers in January.

TABLE 2

	FRUIT CHARACTERISTI	ICS OF "SAAID"
	CHARACTERISTIC	DESCRIPTION
5	Time of ripening	early
	Ratio of length/maximum width	longer than broad
	Primary Fruita	Bi-conical
	Length	43-50 mm
	Width	30-36 mm
10	Secondary Fruit	Bi-conical
10	Length	33-37 mm
	Width	27-32 mm
	Tertiary Fruit	Conical
	length	28-30 mm
	width	25-26 mm
15	Size	Large
	Brand without achenes	Narrow
	Unevenness of surface	Weak
	Color	Red
	Evenness of color	Even
20	Glossiness	Strong
20	Insertion of achenes	Level with surface
	Insertion of calyx	Level with surface
	Pose of calyx segments	Reflexed
	Size of calyx in relation	Larger
	to fruit diameter	
25	Adherance of calyx	Strong
	Firmness	Firm
	Color of Flesh	Medium Red
	Evenness of flesh color	Uneven
	Sweetness ^b	Strong
• •	Color -	42BC circa (RHSCC)
30 _	Taste ^b	, Good

^aThere is a marked difference between the shape of the primary, secondary and tertiary fruit.

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TABLE 3

		COMPARATIVE YIELD OF "SAAID"					
		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	Saaid	0	70	100	100	100	100
40	$Sharon^b$	40	6 0	80	80	80	80
	Shalom ^c	50	7 0	. 80	100	100	7 0
	$Smadar^d$	50	7 0	100	100	100	50
	Dorit ^e	30	70	100	100	100	100
	Douglas f	0	0	40	150	150	150
	Chandlerg	0	0	30	150	150	120

^aAverage yield in g/m² in Ramat Hadar, Israel (1989-90). The time of ripening for "Saaid" fruit is early to medium.

^bU.S. Application Ser. No. 07/735,969. The time of ripening for "Sharon" fruit is very early.

U.S. Application Ser. No. 07/735,695. The time of ripening for "Shalom" fruit is early.

U.S. Application Ser. No. 07/735,967. The time of ripening for "Smadar" fruit is very early to early.

U.S. Application Ser. No. 07/735,968. The time of ripening for "Dorit" fruit is early.

*U.S. Plant Pat. No. 4,487. The time of ripening for "Douglas" fruit is late.

*U.S. Plant Pat. No. 5,262. The time of ripening for "Chandler" fruit is late.

TABLE 4

0 _		T.S.S.ª in %	Acidity ^b in %	Aroma	Taste
-	Saaid	8.0-9.0	1.0	3	Normal
	Sharon ^c	6.5-7.0	1.0	3	Slightly Acidic
	$Shalom^d$	8.0-9.0	1.0	4	Normal
	Smadar ^e	8.5-9.5	1.0	5	Good
5	Dorit ^f	8.5-9.5	1.0	5	Good
	Douglasg	6.5-7.0	0.8	3	Slightly Acidic
	Chandler ^h	6.5-7.0	0.8	3	Slightly

^bSee Table 4.

TABLE 4-continued

 T.S.S. ^a	Acidity ^b	R. j 	OF "SAAID"	
	•		_	
in %	in %	A roma	Taste	

^oTotal Soluble Solids expresses fruit sweetness and was determined with a refractometer.

Percent of acidity was determined as follows: 2 cc of juice extract was mixed with 20 cc of water. Five drops of fenolithaleinen was added and the mixture was titrated with NaOH. The percent acidity is calculated as the quantity of NaOH (cc) × 0.32.

U.S. Application Ser. No. 07/735,969. dU.S. Application Ser. No. 07/735,695.

U.S. Application Ser. No. 07/735,967.

JU.S. Application Ser. No. 07/735,968.

U.S. Plant Pat. No. 4,487.

^hU.S. Plant Pat. No. 5,262.

What is claimed is:

1. A new distinct variety of strawberry substantially as illustrated and described and distinguished as being able to grow in September and produce fruit starting in early December and lasting until summer, with fruit having a good taste and shape and a long shelf life.

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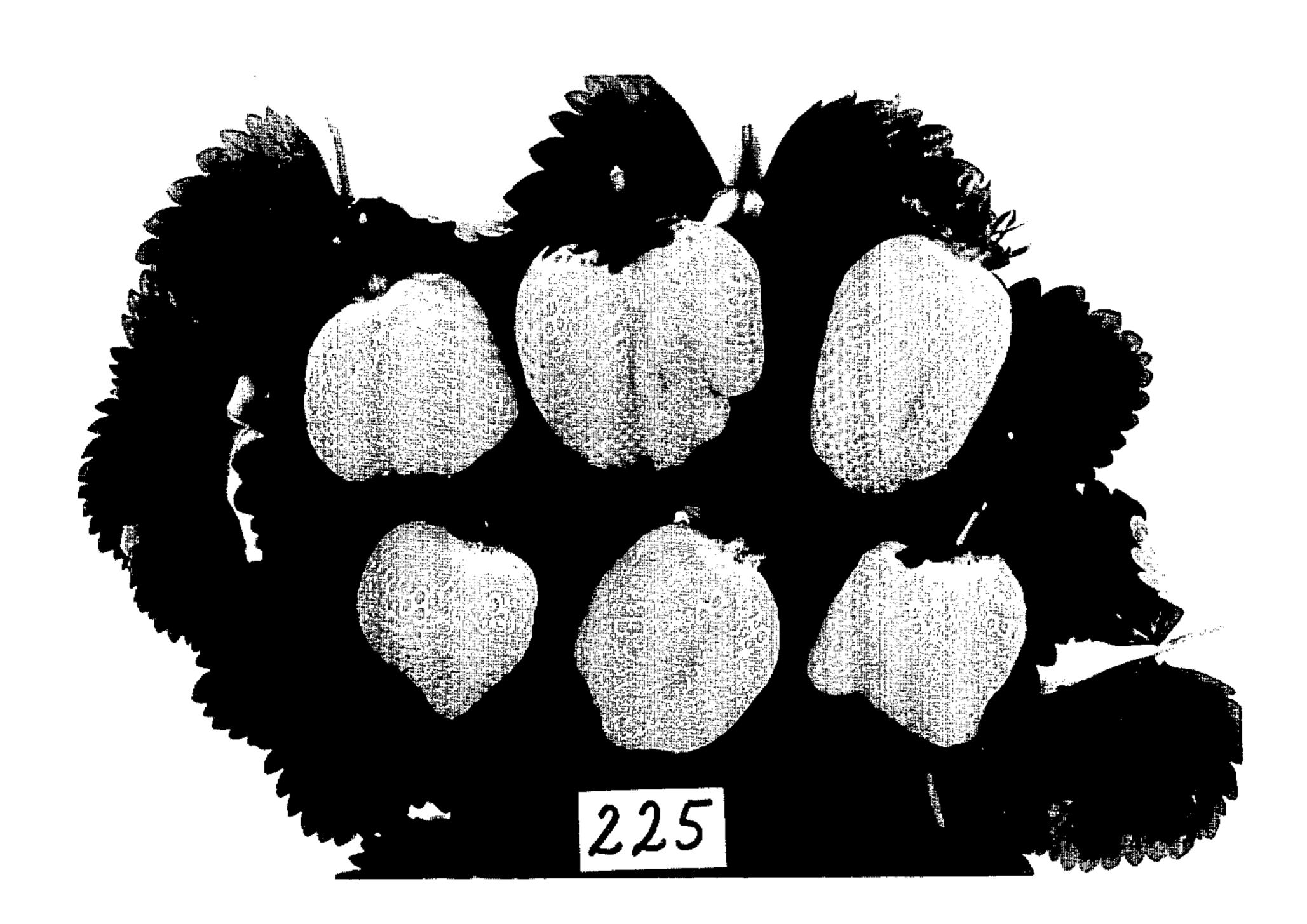


FIG. 1

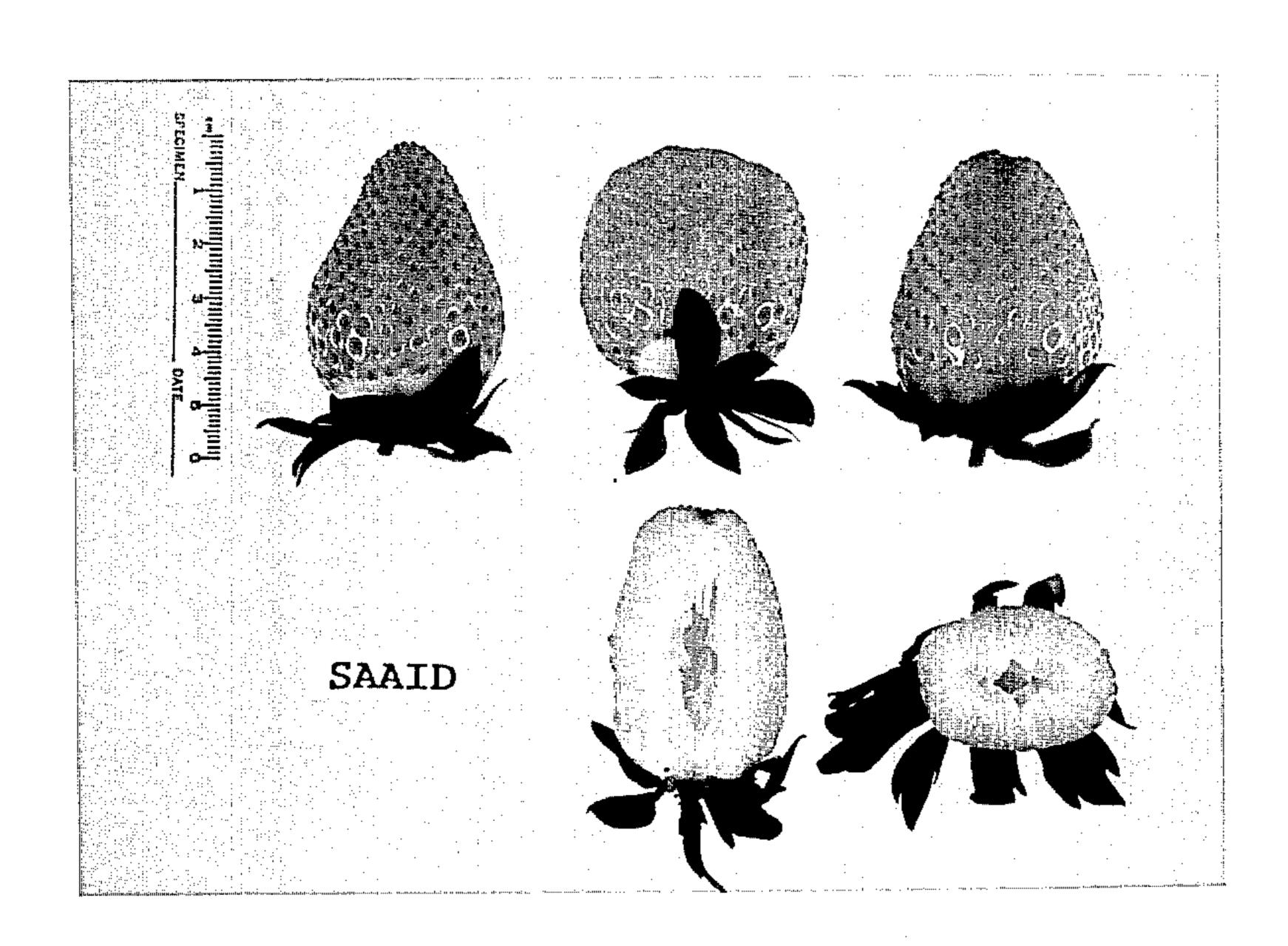


FIG. 2

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FIG. 3