



US00PP10982P

United States Patent [19][11] **Patent Number: Plant 10,982****D'Ercole et al.**[45] **Date of Patent: Jun. 29, 1999**[54] **STRAWBERRY PLANT NAMED 'IDEA'**[52] **U.S. Cl. Plt./208**[75] Inventors: **Nicola D'Ercole**, Bologna; **Walther Faedi**, Casena; **Pasquale Rosati**, San Lazzaro di Saven, all of Italy[58] **Field of Search Plt./48, 208, 209**[73] Assignee: **E.R.S.O. Cooperative Company**, Cesena, Italy[56] **References Cited**[21] Appl. No.: **08/773,249****U.S. PATENT DOCUMENTS**[22] Filed: **Dec. 23, 1996**

P.P. 1,005 2/1951 Felton Plt./48

P.P. 2,085 9/1961 Ulrich Plt./48

P.P. 8,991 11/1994 Sanford et al. Plt./48

Related U.S. Application Data*Primary Examiner*—Howard J. Locker

[63] Continuation of application No. 08/563,889, Nov. 22, 1995, abandoned, which is a continuation of application No. 08/349,217, Dec. 5, 1994, abandoned.

[57] **ABSTRACT**[51] **Int. Cl.⁶ A01H 5/00****2 Drawing Sheets****1****2****BACKGROUND OF THE INVENTION**

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This new cultivar, named 'Idea', was selected in 1986 in a cultivated area in Cesena, Italy from the progeny of a cross made in 1984 between Sel 79.12.13 × 'Etna'. The seed parent Sel 79.12.13 was a plant used only for its germplasm and was never released to the industry and is not the subject of a plant parent or application for a plant patent in the United States. The pollen parent 'Etna' has been trialed at USDA, Beltsville, MD and at Whately, Mass. but never distinguished itself to be released in the United States and is not the subject of a plant patent or application for a plant patent in the United State. 'Idea' has been asexually propagated by runner propagation, tissue culture and micropropagation. 'Idea' has been asexually propagated in nurseries in Central Europe including Italy and in the United Kingdom and also in Massachusetts in the United States. 'Idea' has been shown to be extremely stable in traditional plant propagation procedures for strawberries. There never has been a case reported of 'Idea' not being stable in nurseries and fruit production trials.

		'IDEA'	B	HOL	HON	J
5	Section	Flat 3				
		Convex 4				
	Teeth	Pointed 1	2	2	1	2
	Shape	Rounded 2				
	Teeth	Large 1	1	2	1	1
	Size	Small 2				
10	Teeth	High 1	1	1	2	1
	Number	Medium 2				
	Leaf Size	Low 3				
		Large 1	2	2	1	2
		Medium 2				
15	Leaf Base	Small 3				
		Round 1	1	1	2	2
		Tapered 2				
	Growth	Straight 1	1	1	1	2
	Habit	Upright 2				
	Upper Leaf	Clear Green 1	1	1	1	1
	Surface	Dark Green 2				
20	Upper Leaf	High 1	2	1	1	2
	Surface	Medium 2				
	Glossiness	Low 3				

The 'Idea' variety is characteristically different from any other commercial variety in the United States today, including the California varieties. Its differentiating characteristics include its disease resistance, the lateness of fruiting, the berry color, and its large yield.

Comparison to Cultivars of U.S. Plant Pat. Nos. 1,005 and 2,085**Comparison with Related Prior Art**

The following is a comparison of 'Idea' with the cultivars of U.S. Plant Pat. Nos. 1,005 and 2,085:

The following are characteristics of 'Idea' as compared to 'Biomidon' (B), 'Holiday' (HOL), 'Honeye' (HON) and 'Jewel' (J):

		'IDEA'	B	HOL	HON	J
Habit	upright 1	2	3	1	3	2
	Intermediate 2					
	Open 3					
Vigor	1 to 5	4	4	3	3	3
	Poor to High					
Bed	1 to 5	3	4	2	4	4
Uniformity	Poor to High					
Central Leaf	Roundish 1	1	2	2	2	1
	Elliptic/Round 2					
Shape	Elliptic/Elongated 3					
	Angular 1	3	2	1	3	3
Leaf	Concave 2					

	IDEA	#1,005	#2,085	
30	Fruiting Season	Very Late	Early-Mid Season	Early-Mid Season
	Color	Bright Orange Red	Glossy Bright Red	Bright Red
	Shape	Blocky, conical	Uniformly conical	Globe, conical
35	Calyx	Embedded - not easily removed	Not noted	Slightly embedded - (snaps easily)
		Very Light Pink	Red throughout	Deep, rich color
Internal Color	Slightly aromatic	Not noted	Distinctly aromatic	
40	Aroma	Sweet, pleasant taste	Sweet, slightly tart	Pineapple flavor
		medium-good strawberry flavor		
Fruit	Fruit lays on	Heavy upright	Strong and upright	

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	IDEA	#1,005	#2,085
Stems	ground		
Leaf	Rounded	Sharp	Sharp
Serrations			
Runner	Very numerous -	15 or more per	Fairly numerous
Production	50-80 per mother	mother	
Seeds/-	Slightly recessed	Non-conspicuous	Not noted
Achenes			

DESCRIPTION OF THE FIGURES

FIG. 1. shows the upper leaf surface of 'Idea'.

FIG. 2. shows the lower leaf surface of 'Idea'.

FIG. 3. shows the fruit of 'Idea'.

DESCRIPTION OF THE INVENTION

Strawberry 'Idea' is a late ripening strawberry variety (season of the cv. 'Dana') with large conical berries having a bright orange-red skin color 5R, $\frac{5}{10}$ (This color specification as well as the other color specifications employed in the description herein are those of the Munsell Color Chart for Plant Tissues, 2nd edition, revised 1997.). The plant is highly vigorous, with terminal leaflets forming from obtuse to highly obtuse angles. Hairs on the petioles are perpendicular. Berries are large, conical, with an orange-red skin color, changes slightly recessed are or at skin surface level. It is a late ripening variety, June-bearing in the Italian Po valley and is not everbearing, It is resistant to most disease, in particular resistant to antracnose caused by *Colletotricum actatium*. 'Idea' is further described as follows:

- 1) *Habit*.—Expanded.
- 2) *Height*.—High.
- 3) *Maximum diameter*.—Large.
- 4) *Density*.—High.
- 5) *Vigor*.—High.

Leaf:

- 6) *Upper blade: main color*.—Clear green (green-yellow 7.5GY, $\frac{3}{4}$).
- 7) *Upper blade: secondary color*.—Absent.
- 8) *Upper blade: brightness*.—Intermediate.
- 9) *Upper blade: outline*.—Flat or concave.
- 10) *Upper blade: curling*.—Scarce or medium.
- 11) *Vein emergence*.—Medium.
- 12) *Leaf margins*.—crenate to rounded serrate.
- 13) *Leaflets compared to the peduncle*.—Horizontal.
- 14) *Thickness*.—Medium.
- 15) *Upper blade pubescence*.—Scarce.
- 16) *Lower blade pubescence*.—Scarce.
- 16A) *Lower blade color*.—light green 7.5GY, $\frac{8}{2}$.
- 17) *Leaflet number*.—Three, occasionally more than three.
- 18) *Terminal leaflet: length*.—Medium.
- 19) *Terminal leaflet: width*.—Medium.
- 20) *Terminal leaflet: length/width ratio*.—A little longer than wide.
- 21) *Terminal leaflet: basal angle*.—From obtuse to very obtuse.
- 22) *Terminal leaflet: basal shape*.—U shape.
- 23) *Terminal leaflet: teeth*.—Crenate.
- 24) *Terminal leaflet: secondary teeth*.—Occasional.

Petiole:

- 25) *Pubescence*.—Medium high, fine and numerous.
- 26) *Hairs*.—Perpendicular.

Stipules:

- 27) *Red pigmentation*.—Scarce.
- 28) *Length*.—Medium.

Stolons:

- 29) *Number*.—High.
- 30) *Red pigmentation*.—Present, especially in the first part of the filament.
- 31) *Color*.—Red.
- 32) *Thickness*.—Thick.
- 33) *Pubescence*.—Scarce.
- 34) *Hair position*.—Perpendicular.

Flower cluster:

- 35) *Position compared to leaves*.—Under.

Peduncle:

- 36) *Length (flowers of third order)*.—Medium-short.
- 37) *Thickness*.—Medium-high.
- 38) *Pubescence*.—Scarce.
- 39) *Hair position*.—Perpendicular.

Flowers:

- 40) *Sex*.—Hermaphrodite.
- 41) *Size*.—Medium-large.
- 42) *Calyx size related to corolla*.—Same size.
- 43) *Size of the upper calyx compared to the lower calyx*.—Same size.
- 44) *Calyx pubescence*.—Medium.

Petals:

- 45) *Number in primary flowers*.—From 5 to 8.
- 46) *Number in secondary flowers*.—From 5 to 6.
- 47) *Position of the margins*.—Overlapping.
- 48) *Length/width ratio*.—As long as wide.
- 49) *Basal angle*.—Obtuse.
- 50) *Undulation of the margins*.—Medium.

Anthers:

- 51) *Size*.—Medium-large.

Fruit:

- 52) *Length*.—Medium.
- 53) *Width*.—High.
- 54) *Maximum length/width ratio*.—More wide than long.
- 55) *Dimensions*.—Large.
- 56) *Shape*.—early berries are generally blocky, slightly longer than wide, with a tendency toward being pointed whereas more mature berries are conical.
- 57) *Difference in shape (between primary/secondary)*.—Very high.
- 58) *Apex*.—Flat or round.
- 59) *Area without achenes*.—Small or medium.
- 60) *Ribs*.—Medium or scarce.
- 61) *Color*.—Red-orange.
- 62) *Color intensity*.—High.
- 63) *Color intensity*.—High.
- 64) *Brightness*.—High.
- 65) *Achenes position*.—Slightly recessed or at berry surface level.
- 66) *Calyx position*.—Quite immersed.
- 67) *Sepals*.—Slightly reflexed.
- 68) *Calyx size compared to fruit diameter*.—Smaller.
- 69) *Easy of calyx detachment*.—Medium.
- 70) *Flesh: firmness*.—High.
- 71) *Flesh: color*.—Clear red.
- 72) *Flesh: uniformity of color*.—Quite uniform.
- 73) *Flesh: sweetness*.—Medium.
- 74) *Flesh: acidity*.—Medium.

75) *Flesh: flavor*.—Medium-good.

76) *Flesh; heart*.—Medium-large.

77) *Evidence of vascular bundles*.—Medium.

Flowering season:

78) *50% of primary flowers open*.—Late.

Harvest season:

79) *50% of the plants with ripe fruit*.—Late.

80) *Everbearing?*—Non everbearing.

Further characteristic of 'Idea' with reference to production in Whately, Mass. are as follows:

81) *Fruit weight*.—First pick: 37–41 grams/berry; average weight of season: 19–22 grams/berry.

82) *Fruit yield*.—About 30,000 pounds per acre.

83) *Picking season begins*.—June 25–28.

84) *Picking season ends*.—July 15–18.

85) *Leaf length*.—Average of 7.7 cm.

86) *Leaf width*.—Average of 7.2 cm.

87) *Leaf margin*.—Rounded serrations measuring 0.5 cm wide at the base for each.

88) *Petiole length*.—For mature leaves, a range of 20.3 to 26.5 cm.

89) *Stolons per plant*.—50–80 (range will vary with soil type, fertility and variations in management).

90) *Bloom coloration*.—Not a distinguishing characteristic.

Usefulness

This new cultivar is particularly well-suited for use by commercial fruit growers in areas similar to climate to the Italian Po Valley and to northern areas (equivalent to Zones 4a to 6b). It is a late ripening variety which is disease resistant and particularly resistant to anthracnose (*Colletotricum actatium*).

What is claimed:

1. A new and distinct strawberry cultivar as herein described and illustrated.

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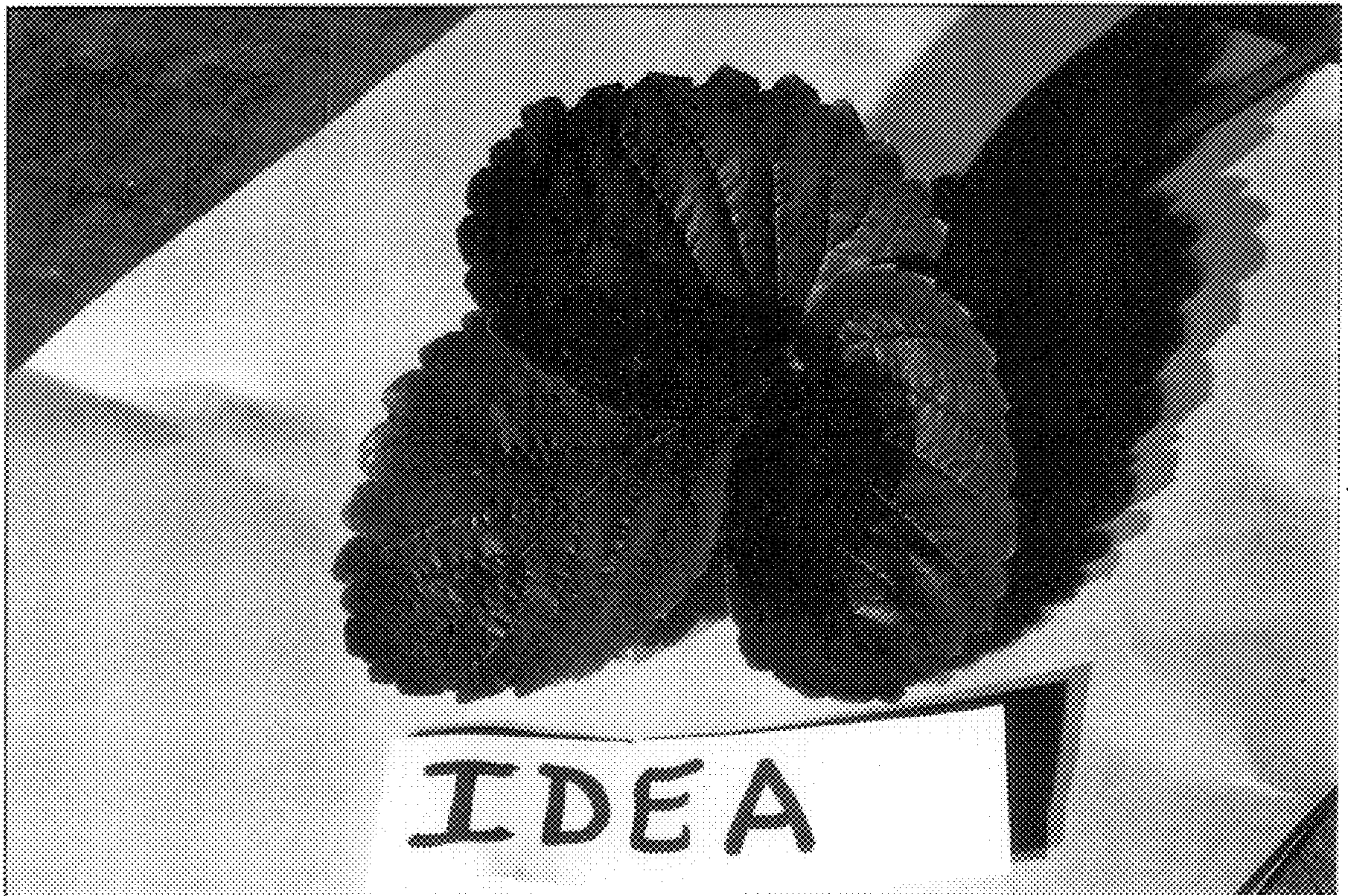


FIG. 1

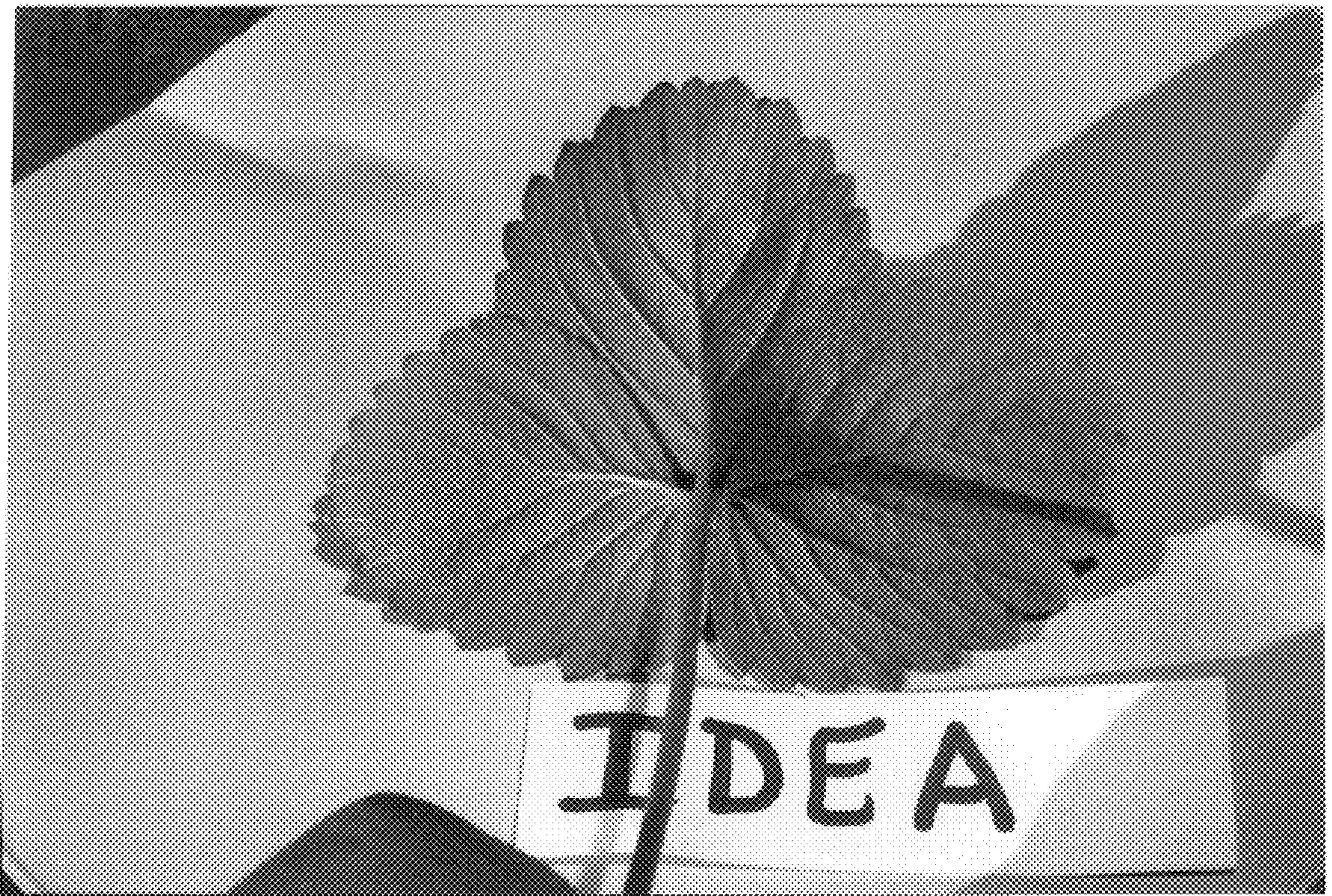


FIG. 2

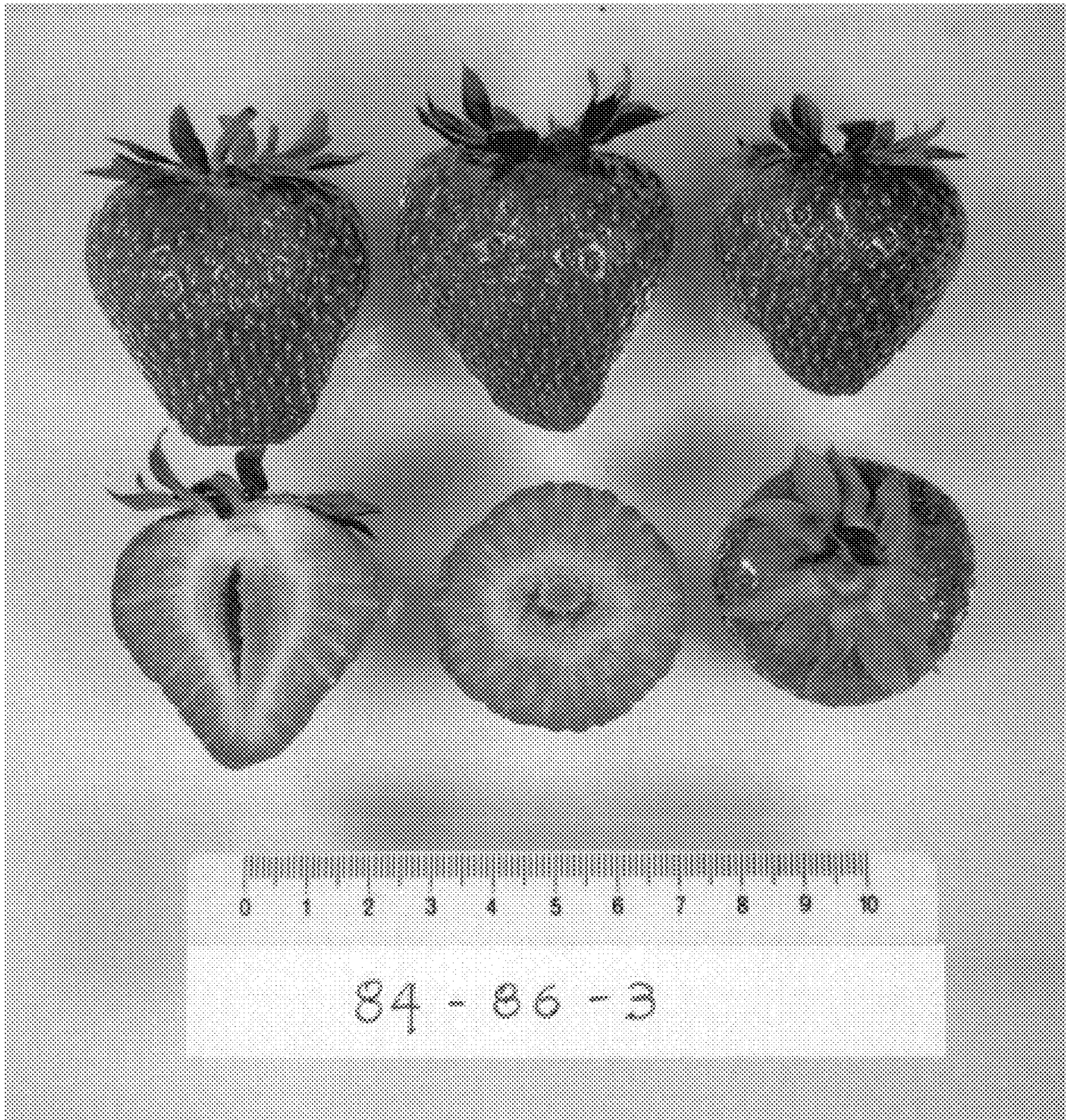


FIG. 3