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

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(54) **RASPBERRY PLANT NAMED ‘DRISCOLL ESTRELLA’**

(51) **Int. Cl.**
A01H 00/05 (2006.01)

(50) Latin Name: ***Rubus idaeus***
Varietal Denomination: **Driscoll Estrella**

(52) **U.S. Cl.** **Plt./204**

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(58) **Field of Classification Search** **Plt./204**
See application file for complete search history.

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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 221 days.

(57) **ABSTRACT**

(21) Appl. No.: **11/327,109**

The present invention relates to a new and distinct cultivar of raspberry plant named ‘Driscoll Estrella’. The new cultivar is distinguished from other raspberry cultivars by its yellow fruit color, fruit firmness, consistent fruit structure and high yield. The new cultivar is distinguished from its pollen parent by producing a higher yield of larger, firmer fruit with a brighter yellow color.

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(65) **Prior Publication Data**

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3 Drawing Sheets

1

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1. LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED

The variety is botanically identified as *Rubus idaeus* L. subgenus *Rubus*.

and very consistent with regard to its size and shape throughout its harvest period. The fruit of ‘Driscoll Estrella’ separates easily from its receptacle.

1.2 VARIETY DENOMINATION

The Raspberry variety denomination is ‘Driscoll Estrella’.

4. BRIEF DESCRIPTION OF THE DRAWINGS

2. BACKGROUND OF THE INVENTION

This invention relates to a new cultivar of raspberry called ‘Driscoll Estrella’. The new cultivar of raspberry plant was developed from a single seedling selected from the hybridization of the selection Q481.7 (an unpatented variety) as the seed parent with the selection S826.3 (an unpatented variety) as the pollen parent. The parents were crossed in 1998, whereafter fruit and seed were collected to produce seedlings for field planting in Watsonville, Calif. in 1998. The new cultivar was selected from these seedlings in 2000 for its yellow color, productivity and flavor. The cultivar has been asexually propagated by in vitro shoot tip culture, root sucker division and root cuttings at the Cassin Ranch in Santa Cruz County, Calif. and has been shown to maintain the desired and distinguishing characteristics after propagation over several generations.

The accompanying photographs show typical specimens of the primocane fruit, leaves and shoot of the new cultivar, in color as nearly true as it is reasonably possible to make in color illustrations of these characteristics. The specimens in FIGS. 1–3 are about 11 months old.

FIG. 1 is a photograph of ‘Driscoll Estrella’ primocane flower and fruit in various stages of development.

FIG. 2 is a photograph of ‘Driscoll Estrella’ primocane leaves showing upper and lower leaf surfaces.

FIG. 3 is a photograph of ‘Driscoll Estrella’ primocane shoot.

3. SUMMARY OF THE INVENTION

The present invention provides a new and distinct yellow raspberry cultivar named ‘Driscoll Estrella’. The cultivar is botanically identified as *Rubus idaeus* L. The ‘Driscoll Estrella’ yellow raspberry plant produces a primocane crop which begins in late June and continues until early November. The florican crop begins in late April and continues until late June or early July. Both the primocane and florican yields are high relative to other comparable yellow varieties. The fruit of ‘Driscoll Estrella’ is notably quite firm

5. DETAILED BOTANICAL DESCRIPTION

The following detailed description of the new raspberry cultivar, ‘Driscoll Estrella’, is based upon observations taken of plants and fruit grown in Watsonville, Calif. between 2001 and 2005, and is believed to apply to plants of the ‘Driscoll Estrella’ cultivar grown in similar conditions of soil and climate elsewhere.

Throughout this specification, color names beginning with a small letter signify that the name of the color, as used in common speech, is aptly descriptive. Color data beginning with a capital letter and followed by an alphanumeric code indicate the most similar color designations as provided by The Royal Horticultural Society (R.H.S.) Colour Chart published by the Royal Horticultural Society of London, England. 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.

Table 1 provides information on the plant and fruit characteristics of the new cultivar 'Driscoll Estrella' compared with characteristics of the unpatented raspberry cultivar 'Heritage'. Observations of the cultivars were taken in comparisons under similar conditions.

The new variety is particularly characterized and distinguished from other cultivars by its yellow fruit color, fruit firmness, consistent fruit structure and high yield. The fruit color of 'Driscoll Estrella' is a bright yellow at harvest. Fruit of 'Driscoll Estrella' separates easily from the receptacle and is of excellent firmness at harvest. The fruit of 'Driscoll Estrella' is very consistent in size and shape throughout the harvest period.

The primocane and florican yields of 'Driscoll Estrella' are high relative to the variety 'Heritage'. 'Driscoll Estrella' is distinguishable from its pollen parent, selection 'S826.3', by producing a higher yield of larger, firmer fruit with a brighter yellow color. The new cultivar has similar fruit size, shape and color as its seed parent, selection 'Q481.7'. Additional characteristics of 'Driscoll Estrella' include an average flower diameter of about 10.0 mm.

5.1 DISEASE AND STRESS RESISTANCE

'Driscoll Estrella' has exhibited some resistance to Phragmidium rust and Phytophthora root rot. Cold tolerance of the new cultivar has not been established. Post harvest fruit rot resistance is good in comparison with many selections and varieties.

TABLE 1

PLANT CHARACTERISTICS OF 'DRISCOLL ESTRELLA'		
	Driscoll Estrella	Heritage
<u>GENERAL</u>		
Plant Size	Small to medium	Large
Growth habit	Erect	Erect
Productivity	High	Medium
Self-fruitfulness	Self-fruitful	Self-Fruitful
Time of bud burst	Medium	Medium
<u>Primocane fruiting</u>		
Percent of cane	50-70	20-40
Length flowering as Primocane		
Percent of total yield Primocanes	51	50
<u>Number of young shoots</u>	Many	Medium
Young shoot pigmentation	None	Medium
Length (cm)	178	195
Time of shoot emergence	Early	Medium
Glaucosity (waxy bloom)	Weak	Weak
Strength	Medium	Medium
Cane cross section (from mid cane of primocane)	Angular	Rounded to angular
Dormant cane color	164-A	166-B
<u>Prickles</u>		
Pigmentation	Green	Green to brown-green
Density on young shoots	Medium	Dense
Attitude of tip	Horizontal	Downward
Size	Medium	Medium
Size: Length (mm) (base to tip at 1 m height at end of harvest)	1.8	2.0
Texture	Heavy	Heavy
Presence and distribution of petioles	Present, regularly distributed	Present, regularly distributed
Pubescence on canes	Absent	Absent

TABLE 1-continued

PLANT CHARACTERISTICS OF 'DRISCOLL ESTRELLA'		
	Driscoll Estrella	Heritage
Internodal distance (cm) (at central 1/3 of cane)	4.8	4.3
<u>LEAVES</u>		
<u>Color</u>		
Face	147-A	147-A
Underside	N138-C	148-C
Relief between veins	Medium	Weak
Glossiness	Medium	Medium
<u>Petiole</u>		
Length (cm)	7.3	7.0
Pigmentation of upper surface	Absent	Present
Pigmentation of underside	Absent	Absent
Stipule orientation	Reflex	Erect
Arrangement	Compound	Compound
Number of leaflets	Sometimes 3, Sometimes 5	Sometimes 3, sometimes 5
Overlapping of lateral leaflets	Touching	Free to touching
Lateral leaflet: length to stalklet (lower pair)	Very short	Very short
<u>Terminal leaflet</u>		
Length (cm)	12.6	14.8
Width (cm)	10.0	8.8
Shape	Ovate	Ovate
Tip	Acuminate	Acuminate
Base	Cordate	Rounded
Margin	Doubly serrate	Doubly serrate
<u>Lateral leaflets (basal pair)</u>		
Length (cm)	10.7	13.7
Width	7.3	7.8
Orientation	Opposite	Opposite
Shape	Ovate	Ovate
Tip	Acuminate	Acuminate
Base	Oblique	Oblique
Margin	Doubly serrate	Doubly serrate
Rachis length between terminal leaflet and adjacent lateral leaflet (cm)	2.1 to 4.4	3.7 to 5.8
<u>FLOWERS</u>		
<u>Flowering period</u>		
Primocane	Late May to late September	Early July to Early October
Florican	Early April to Mid June	Mid April to Mid June
Flower size	Medium	Medium
<u>Petal</u>		
Length (cm)	0.9	0.7
Width (cm)	0.5	0.3
<u>Pedicel</u>		
Coloration	None	Medium
Length	Medium	Medium
<u>FRUIT</u>		
<u>Harvest Season</u>		
Primocane	Late June to Late October	Early August to Early November
Florican	Early May to Mid July	Late May to Mid July

TABLE 1-continued

PLANT CHARACTERISTICS OF 'DRISCOLL ESTRELLA'		
	Driscoll Estrella	Heritage
<u>Fruiting Lateral</u>		
Number of fruit per lateral	14	23
Color	Yellow	Medium Red
Immature	11-B	180-A
Maturing	162-B	185-B
Mature fruit	162-A	185-A
Glossiness	Medium	Medium
Shape	Ovate	Ovate
<u>Dimensions</u>		
Size	Medium	Small
Length (mm)	22	19
Width (mm)	23	19
Length:width	0.95	1.0
<u>Weight (g/Fruit)</u>		
Primocane	4.5	3.4

TABLE 1-continued

PLANT CHARACTERISTICS OF 'DRISCOLL ESTRELLA'		
	Driscoll Estrella	Heritage
Floricane	4.4	2.6
Soluble Solids (%)	11.1	10.5
Titrateable acidity (% as citric acid)	1.3	1.50
<u>Seeds</u>		
Weight (mg/seed)	1.87	1.62
Number drupelets/fruit	82	75
Adherence to plug (1-9)	Medium	Medium
Firmness	Very firm	Firm
Yield	High	Medium

What is claimed:

1. A new and distinctive cultivar of raspberry plant, substantially as shown and described.

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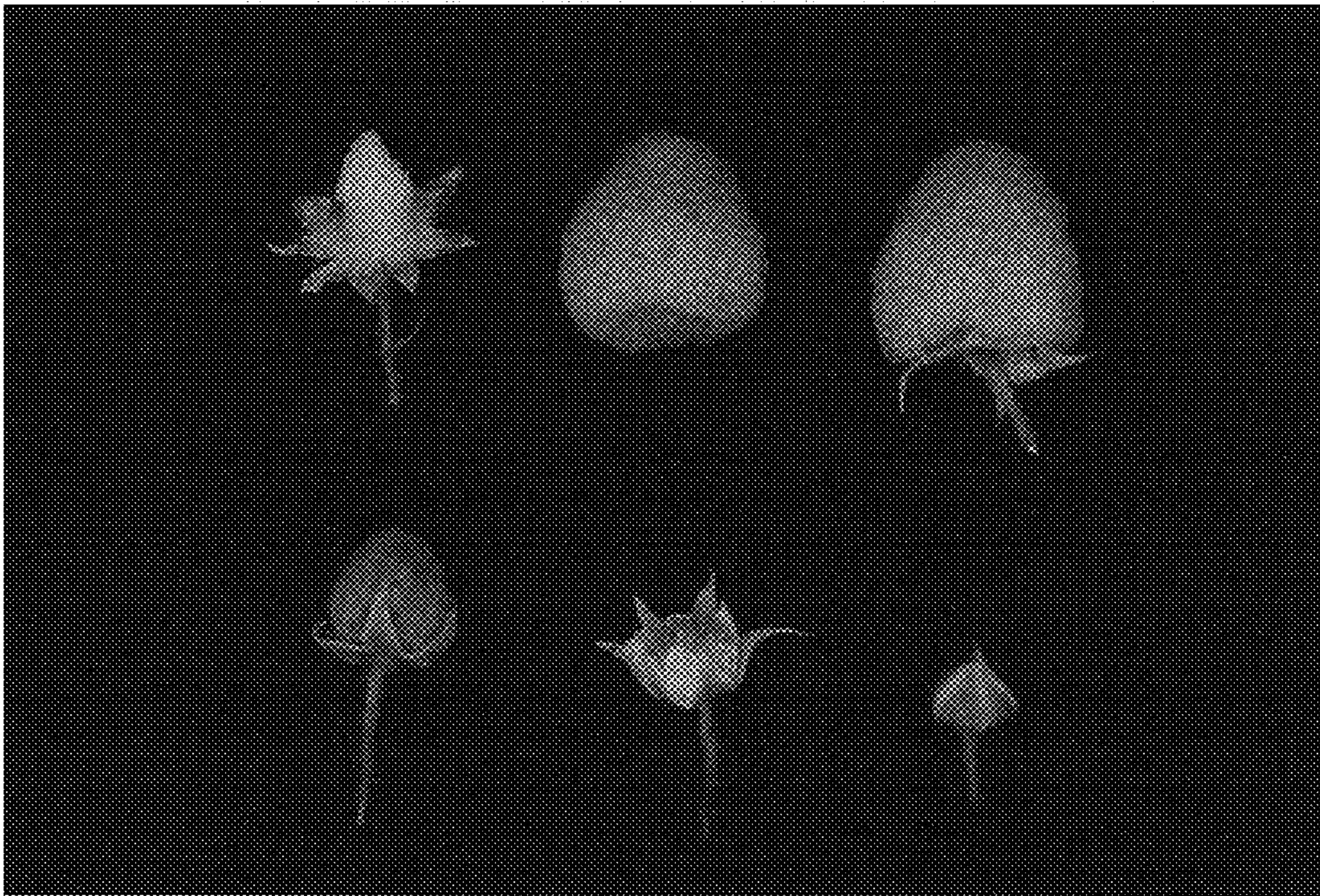


FIG. 1

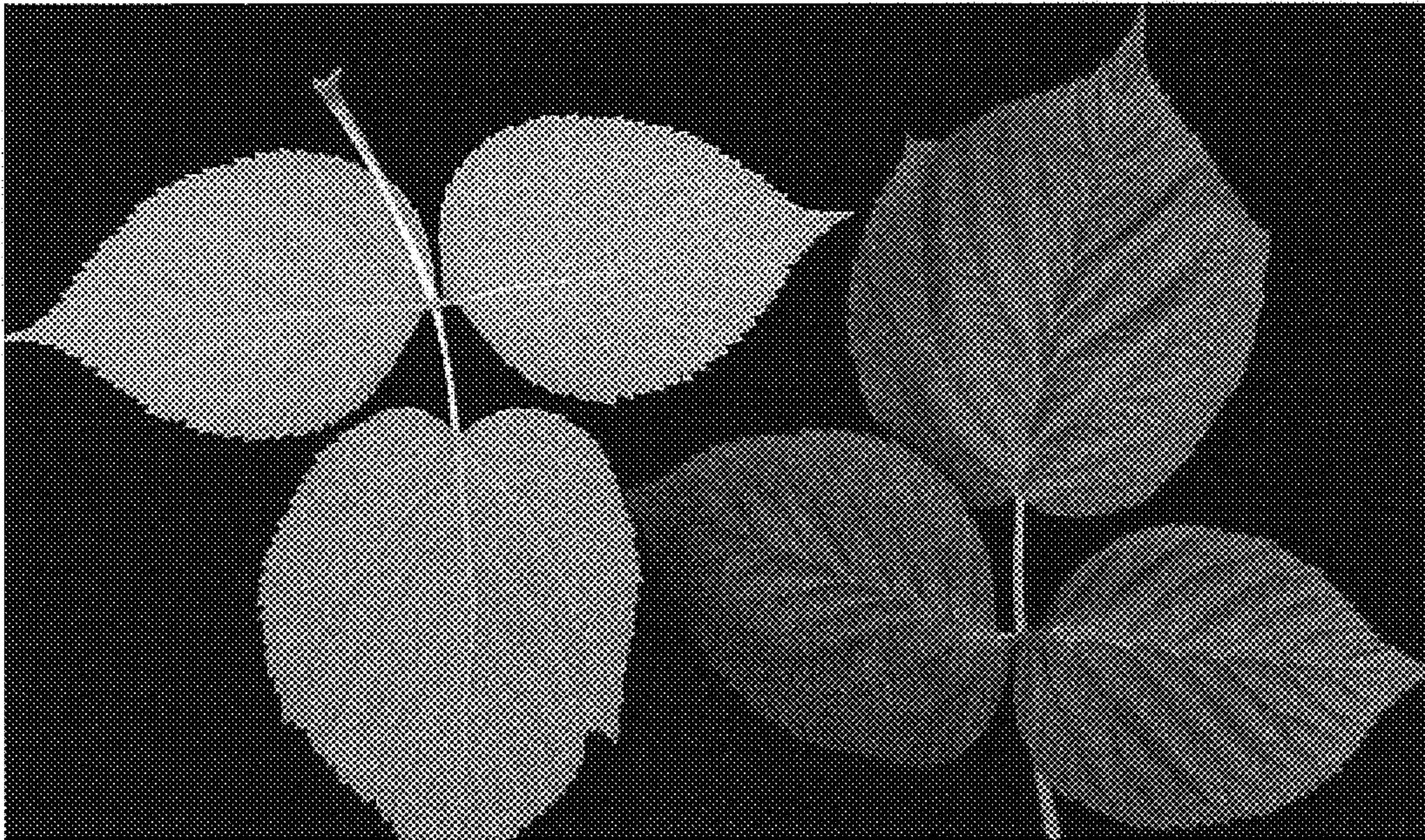


FIG. 2



FIG. 3