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(12) **United States Plant Patent**
Fouillet

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(54) **APPLE TREE NAMED ‘R202’**
(50) Latin Name: *Malus domestica*
Varietal Denomination: **R202**
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A01H 6/74 (2018.01)
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CPC *A01H 6/7418* (2018.05)
(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**
‘R202’ apple tree is a new variety selected for its distinctive and flavorful red-and-white fleshed fruit, which is well-suited for the fresh market.

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8 Drawing Sheets

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Latin name: *Malus domestica*.
Variety denomination: ‘R202’.

BACKGROUND OF THE VARIETY

‘R202’ is a new and distinct variety of apple tree (*Malus domestica*) obtained from a controlled cross of ‘Dalitron’ (female parent, U.S. Plant Pat. No 16,753) x ‘HY63-2’ (male parent, not patented) carried out at Seiches sur le Loir, France in 2005. Seeds obtained from the cross were planted at Seiches sur le Loir, and ‘R202’ was selected from the resulting seedlings for propagation and further observation. ‘R202’ was first asexually propagated by grafting at Seiches sur le Loir in 2013, and has since been observed to remain true to type over successive asexually propagated generations.

BRIEF DESCRIPTION OF THE VARIETY

‘R202’ apple tree is distinguished by its sweet red-fleshed fruit. Comparisons of ‘R202’ to its parents and to similar variety ‘R201’ (U.S. Plant Pat. No. 28,218) are shown in Tables 1, 2 and 3 below.

TABLE 1

Comparison of ‘R202’ to Female Parent ‘Dalitron’		
Characteristic	‘R202’	‘Dalitron’
Flesh Color	Red 48C and White 155D	White 155D
Skin Color	Red 53A and Red 45A	Green-yellow 150C
Flavor	More sweet	Less sweet
Harvest Date	1 week before ‘Dalitron’	1 week after ‘R202’

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TABLE 2

Comparison of ‘R202’ to Male Parent ‘HY63-2’		
Characteristic	‘R202’	‘HY63-2’
Aroma	More aromatic	Less aromatic
Russetting on Fruit Skin	Less russetting	More russetting
Flesh Color Intensity	Less intense	More intense
Flavor Comparison	Less acidic, more sweet	More acidic, less sweet

TABLE 3

Comparison of ‘R202’ to Similar Variety ‘R201’		
Characteristic	‘R202’	‘R201’
Fruit Size	Larger: 84 mm diameter, 76 mm height	Smaller: 78 mm diameter, 67 mm height
Russet on Fruit Skin	Much less russet	More russet
Juiciness	Very high	Moderate
Tree Habit	Spreading	Drooping
Harvest date	Earlier, similar to ‘Red Delicious’*	Later, similar to ‘Braeburn’*

*not patented

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

FIG. 1 is a photograph of a flower of an ‘R202’ apple tree;
FIG. 2 is a photograph of an ‘R202’ apple tree with young leaves and flowers;
FIG. 3 is a photograph of a one year old shoot of an ‘R202’ apple tree;
FIG. 4 is a photograph of an ‘R202’ apple tree with mature leaves;
FIG. 5 is a photograph of the trunk of an ‘R202’ apple tree;
FIG. 6 is a photograph of the upper surface of a leaf of an ‘R202’ apple tree;

FIG. 7 is a photograph of a fruit on an 'R202' apple tree; and

FIG. 8 is a photograph of whole and sectioned fruit from an 'R202' apple tree.

DETAILED BOTANICAL DESCRIPTION OF THE VARIETY

The accompanying photographs and the following detailed botanical description were obtained at Seiches sur le Loir, France during 2016 and 2017, of trees planted in 2013 and grown on Pajam®2 'Cepiland' (U.S. Plant Pat. No. 7,715) rootstock. All colors are described according to The Royal Horticultural Society Mini Colour Chart (2005). It should be understood that the characteristics described will vary somewhat depending upon cultural practices and climatic conditions, and will vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant or any group of plants of the new variety may vary from the stated average.

Tree:

Vigor.—Moderate.

Type.—Ramified.

Habit.—Spreading.

Spread of mature tree.—1.4 meters.

Height.—Approximately 2.3 m.

Trunk diameter (at 30 cm above the graft).—34 mm.

Bearing.—On shoots.

Bark texture.—Smooth.

Bark color.—Brown N200C.

Lenticel length.—2.5 mm.

Lenticel width.—0.8 mm.

Lenticel height.—0.4 mm.

Lenticel shape.—Oblong.

Lenticel color.—Greyed orange N170A.

Branch (fruiting branches located at around 1 m above the graft union):

Length.—1 m.

Diameter.—12 mm.

Crotch angle.—80°.

Bark color.—Brown N200C.

Lenticel length.—2.3 mm.

Lenticel width.—0.8 mm.

Lenticel height.—0.4 mm.

Lenticel shape.—Round to oblong.

Lenticel color.—Greyed orange 163A.

Number of lenticels per cm².—3.

One year old shoot:

Length.—42 cm.

Diameter.—6 mm.

Growth pattern.—Straight.

Color.—Greyed purple 183A.

Pubescence.—Moderately pubescent.

Internode length.—32 mm.

Lenticel length.—0.8 mm.

Lenticel width.—0.8 mm.

Lenticel height.—0.3 mm.

Lenticel shape.—Round.

Lenticel color.—Greyed yellow 160B.

Number of lenticels per cm².—6.

Position of vegetative buds in relation to shoots.—

Stipitate, semi-erect to horizontal.

Shape of vegetative bud apex.—Acute.

Color of vegetative bud.—Greyed purple 187A.

Flower buds:

Quantity per spur.—5.

Bud shape.—Conical.

Apex shape.—Rounded.

Length.—11 mm.

Diameter.—9 mm.

Color.—Purple N79C.

Flowers:

Inflorescence type.—Umbel.

Diameter of fully open flower.—36 mm.

Flower depth.—12.4.

Relative position of petal margin.—Touching.

Number per cluster.—5 to 6.

Fragrance.—Moderately fragrant.

Date of first bloom.—April 5 (2017 growing season); same as 'Gala'.

Date of full bloom.—April 10 (2017 growing season); same as 'Gala'.

Pollination requirement.—'Gala', 'Granny Smith', and 'Golden Delicious' are suitable pollinators.

Petals:

Number per flower.—5.

Shape.—Elliptical.

Length.—19 mm.

Width.—13 mm.

Apex.—Obtuse.

Base.—Acute.

Margin.—Smooth.

Texture.—Rugulose.

Color.—Upper surface red purple 67A, veins red purple 61A. Lower surface red purple N74C and white N155B.

Pistils:

Length.—10 mm.

Quantity.—5.

Color.—Red 56A and red purple 64D.

Stigma:

Length.—1 mm.

Color.—Red 56A.

Position relative to anther.—Same level.

Style:

Length.—5 mm.

Color.—Red purple 64D.

Ovary:

Length.—4 mm.

Diameter.—2.8 mm.

Color.—Green 137A.

Anthers:

Quantity.—20.

Length.—2 mm.

Diameter.—1.2 mm.

Color of anther.—Red purple 58A.

Pollen quantity.—Present, neither scarce nor especially abundant.

Color of pollen.—Yellow 8C.

Pedicel:

Length.—25 mm.

Diameter.—1.5 mm.

Color.—Brown 200B.

Sepals:

Quantity.—5.

Color.—Upper surface green 138D. Lower surface greyed orange 166A.

Length.—7.7 mm.

Width.—4 mm.
Shape.—Pointed.
Apex.—Acute.
Margin.—Smooth.
Pubescence.—Highly pubescent.
 Leaves:
Shape.—Elliptical.
Length.—85 mm.
Width.—52 mm.
Length/width ratio.—1.63.
Blade margin.—Serrate, slight undulation.
Apex.—Pointed.
Base shape.—Obtuse.
Profile in cross section.—Concave.
Leaf color.—Upper surface green 137A, veins red 15
 purple 71A. Lower surface green 137C, veins red
 purple 71A.
Stipule size.—2 mm×6 mm.
Stipule color.—Green 137A with red purple 71A at
 base.
Attitude in relation to shoot.—Outward.
 Petiole:
Length.—27 mm.
Diameter.—2 mm.
Color.—Red purple 71A.
 Fruit:
Quantity per cluster.—1 to 3.
Diameter.—84 mm.
Height.—76 mm.
Height to width.—0.9.
Weight.—279 g.
General shape in profile.—Globose.
Position of maximum diameter.—At equator.
Ribbing.—Not present.
Crowning at calyx end.—Slight.
Bloom of skin.—Absent or weak.
Greasiness of skin.—Absent or weak.
Lenticel color.—Yellow white 158D.
Lenticel density.—5 to 7 per cm².
Lenticel shape.—Round.
Lenticel size.—Diameter 0.6 mm.
Background color of skin.—Greyed orange 171A.
Over color of skin.—Red 53A and red 45A.
Amount of over color.—High, 95% to 100%.
Intensity of over color.—Moderate to high.
Pattern of over color.—Solid flush.

Amount of russet around stalk cavity.—Weak to moderate.
Amount of russet on cheeks.—Absent or weak.
Area of russet around eye basin.—Absent or weak.
Length of stalk.—Short, 19 mm.
Diameter of stalk.—Thick, 4 mm.
Depth of stalk cavity.—13 mm.
Width of stalk cavity.—37 mm.
Depth of eye basin.—10 mm.
Width of eye basin.—26 mm.
Size of eye.—Medium, 6.6 mm.
Aperture of eye.—Closed.
Length of sepal.—7 mm.
Firmness of flesh.—Medium to weak (soft but
 crunchy).
Flesh texture.—Fine.
Aperture of locules.—Nearly fully open.
Aroma, flavor.—Balanced acid-to-sugar ratio, slight
 berry flavor.
Juiciness.—Very high.
Brix.—11° Brix to 15° Brix.
Flesh color.—About 50% red 48C, primarily around
 the core and near the surface, and 50% white 155D
 (see FIG. 8).
Stem color.—Brown 200C.
 Seeds:
Quantity per fruit.—8 to 12.
Length.—9 mm.
Shape.—Oval.
Color.—Greyed orange 170A and greyed orange 165A.
 Harvest:
Harvest date.—September 14 (2017) similar to ‘Red
 Delicious’.
Number of picks.—1 to 3.
Fruit load per tree.—Average 80 fruits per tree evaluated.
 Disease resistance/susceptibility: None noted at the time of
 filing.
 Storageability Medium to good; 2 months in standard cold
 storage.
 Market use: Fresh consumption.
 The invention claimed is:
 1. A new and distinct apple tree substantially as described
 and illustrated herein.

* * * * *



FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 5

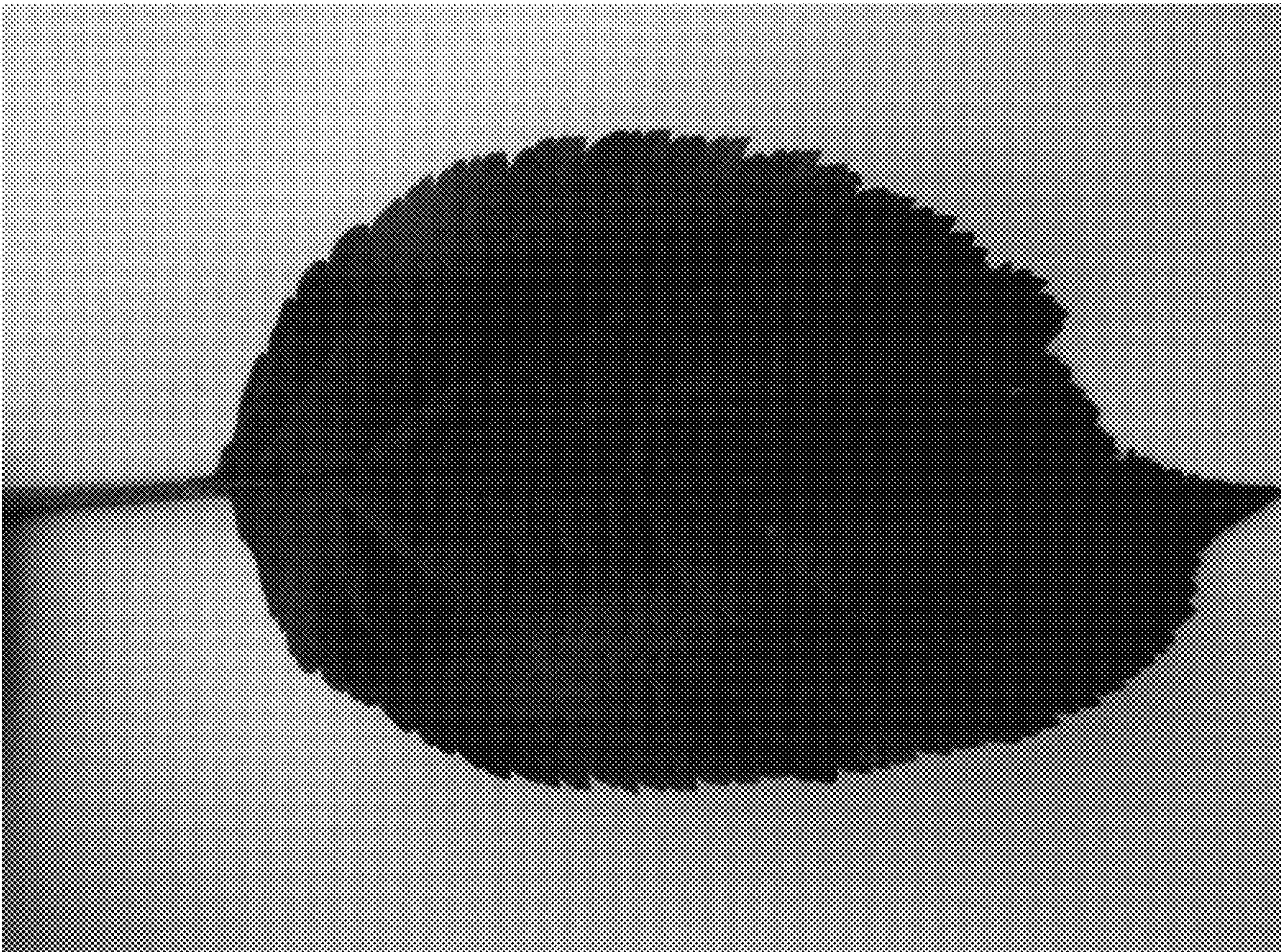


FIG. 6



FIG. 7

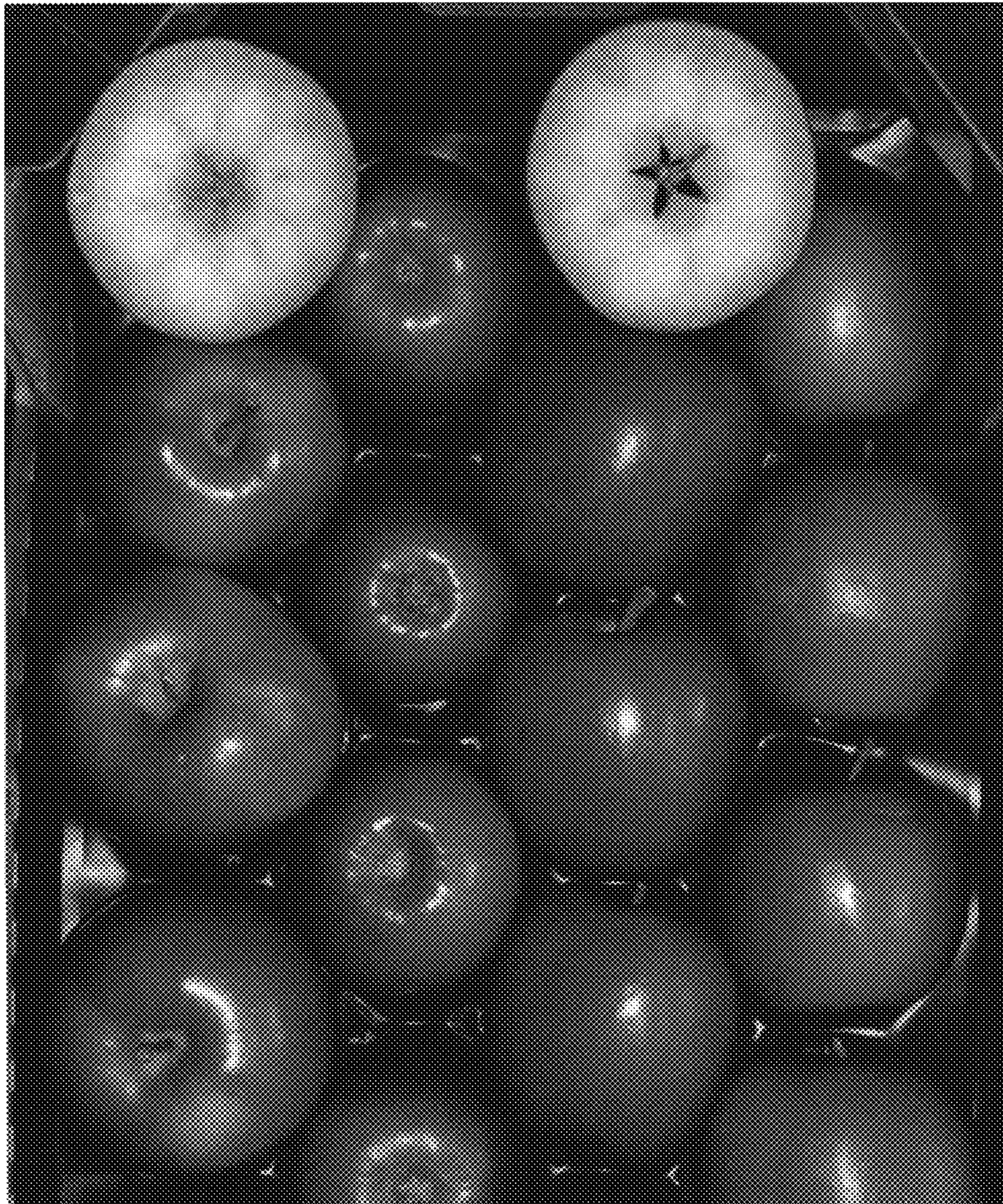


FIG. 8