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

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(54) **LEMON TREE NAMED '7 ELS C3'**

(50) Latin Name: *Citrus limon*
Varietal Denomination: **7 ELS C3**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 42 days.

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(51) **Int. Cl.**
A01H 5/08 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./201**
CPC **A01H 5/0806** (2013.01)

(58) **Field of Classification Search**
USPC **Plt./201**
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

Plant Varieties Journal, Quarter One, vol. 20, No. 1, pp. 44,89 and
234-238, May 16, 2007.*

* cited by examiner

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(74) *Attorney, Agent, or Firm* — Michelle Bos Legal LLC

(57) **ABSTRACT**

'7 ELS C3' is a new and distinct lemon tree notable for its
high quality seedless fruit.

4 Drawing Sheets

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Genus and species: *Citrus limon*.
Variety denomination: '7 ELS C3'.

**BACKGROUND AND SUMMARY OF THE
VARIETY**

The new lemon variety '7 ELS C3' originated as an
induced mutation of 'Eureka' lemon (not patented). Gamma
irradiation from a Gammacell 200 (60C) source was applied
to bud sticks of 'Eureka' in 1998 at Emerald, Queensland,
Australia. The irradiated bud sticks were budded onto 'Car-
rizo' rootstock (not patented) in June 1998 at Bundaberg,
Queensland, Australia, and the trees that survived were field
planted at Bundaberg in 1999. The selection now known as
'7 ELS C3' was identified as showing consistently fewer
seeds than the parent variety, with no significant reduction in
fruit size. A comparative trial was planted in 2003, using '7
ELS C3' budwood on 'Benton' (not patented) rootstock.
Successive generations have consistently shown few seeds
and have reproduced true to type.

'7 ELS C3' is a new and distinct lemon tree notable for its
fruit, which produces consistently low numbers of seeds.
Table 1 shows a comparison of '7 ELS C3' lemon to
'Eureka' and other similar (unpatented) varieties.

TABLE 1

Comparison of '7 ELS C3' to Known Varieties			
Characteristic	'7 ELS C3'	'3 ELS 0'	'Eureka'
Seed quantity	Few to medium	Absent to few	Many
Mean fruit length (mm)	84.24	74.56	84.76
Mean fruit diameter (mm)	60.32	57.16	62.84

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TABLE 1-continued

Comparison of '7 ELS C3' to Known Varieties			
Characteristic	'7 ELS C3'	'3 ELS 0'	'Eureka'
Fruit length/diameter ratio	1.40	1.31	1.35
Rind thickness (mm)	4.76	4.48	5.24

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

FIG. 1 shows whole and sectioned fruit of '7 ELS C3'
lemon and other varieties;

FIG. 2 shows a '7 ELS C3' lemon tree;

FIG. 3 shows the trunk, branches and leaves of a '7 ELS
C3' lemon tree; and

FIG. 4 shows the fruit and leaves of a '7 ELS C3' lemon
tree.

The tree shown in FIGS. 2, 3 and 4 is an eleven year old
tree planted in 2003. Because lighting conditions can affect
the colors shown in photographic illustrations, color char-
acteristics of this new variety should be determined with
reference to the observations described herein, rather than
from the illustrations alone.

DETAILED BOTANICAL DESCRIPTION

The following detailed botanical description is based on
observations of trees and fruit of '7 ELS C3', budded to
'Benton' rootstock (not patented) and planted in 2003.
Observations were recorded and photographs taken during
the 2006 and 2014 growing seasons at Mundubbera, Queen-
sland, Australia. It should be understood that the charac-
teristics described will vary somewhat depending upon cultural
practices and climatic conditions, and can 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. Colors are described with reference to The Royal Horticultural Society Colour Chart (5th edition, 2007).

Tree:

Vigor.—Vigorous.

Density of canopy.—Dense.

Habit.—Upright spreading.

Height.—4 m.

Spread.—3 m.

Trunk diameter (at 30 cm above graft).—150 mm.

Bark texture.—Smooth.

Bark color.—Greyed-orange 163D, greyed-purple N187A.

Lenticel size.—1 mm.

Lenticel color.—Greyed-purple N187A.

Lenticel quantity.—Many, 2 to 4 per cm².

Tendency toward alternate bearing.—None.

Winter hardiness.—Same as 'Eureka', performs well in USDA hardiness zones 9 and 10.

Chilling requirement.—Same as 'Eureka', no chilling requirement.

Drought tolerance.—Same as 'Eureka', tolerant.

Branch (fruiting branch located about 1 m above graft union):

Length.—80 cm.

Diameter.—6 cm.

Crotch angle.—Approximately 30 degrees.

Bark color.—Greyed-orange 163D, greyed-purple N187A.

Bark texture.—Smooth.

Thorns.—Present.

Thorn length.—Very short, 5 mm or less.

Current year shoot:

Length.—80 cm.

Color.—Green 140A.

Blossoms:

Bud shape.—Oval.

Bud length.—2.2 mm.

Bud diameter.—1 mm.

Bud color.—Yellow-green 144A.

Quantity of blossoms per cluster.—4 to 7.

Blossom diameter.—23 mm.

Blossom depth.—19 mm.

Pollen.—None.

Sepal length.—4.2 mm.

Sepal width.—4.4 mm.

Sepal shape.—Arched.

Sepal margin.—Smooth.

Sepal color.—Upper surface — Yellow 2B.

Sepal color.—Lower surface — Yellow 3B.

Quantity of petals per flower.—6.

Petal shape.—Elongated arch.

Petal apex.—Rounded to acute.

Petal margin.—Smooth.

Petal length.—19 mm.

Petal width.—5.2 mm.

Petal color.—Upper surface — White NN155D.

Petal color.—Lower surface — White NN155D, violet 84D.

Date of first bloom.—Late August.

Date of full bloom.—Early September.

Flowering habit.—More than once in a season; up to 7 flowerings observed.

Date of first fruitlet fall.—November.

Pedicel length.—5 mm.

Pedicel diameter.—1.9 mm.

Pedicel color.—Yellow-green 151C.

Pistil quantity per flower.—1.

Pistil length.—11.9 mm.

Pistil color.—Orange 26A, yellow 9A, yellow-green 144A.

Anther quantity per flower.—1.

Anther length.—3 mm.

Anther color.—Orange 26A.

Stigma quantity per flower.—1.

Stigma length.—2.1 mm.

Stigma color.—Yellow 9A.

Style quantity per flower.—1.

Style length.—9.8 mm.

Style color.—Yellow 1B.

Ovary quantity per flower.—1.

Ovary length.—4.7 mm.

Ovary diameter.—3 mm.

Ovary color.—Yellow-green 144A.

Leaves:

Length.—105 mm.

Width.—58.7 mm.

Length/width ratio.—1.78.

Blade margin.—Crenate.

Leaf shape.—Oval, weak concave.

Apex shape.—Acute.

Base shape.—Cuneate.

Color of upper surface.—Green 143B.

Color of lower surface.—Yellow-green 145A.

Anthocyanin coloration in young leaf.—Weak, less intense than 'Eureka'.

Leaf texture (upper surface).—Smooth.

Petiole length.—12.3 mm.

Petiole diameter.—2.5 mm.

Petiole color.—Yellow-green N144D.

Wings.—None.

Fruit:

Quantity per cluster.—4.

Axial diameter.—84.24 mm.

Apical diameter.—60.32 mm.

Weight.—159 g.

General shape in profile.—Oval.

Position of maximum diameter.—Middle of fruit.

Navel.—None.

Neck.—Present, very short.

Nipple.—Present, weak to medium prominence.

Rind color.—Green 140B.

Glossiness.—Weak.

Oil glands per cm².—About 40.

Oil gland diameter.—1 mm.

Oiliness.—Oily.

Rind thickness.—4.7 mm.

Ease of peeling.—Difficult.

Rind texture.—Smooth.

Albedo thickness.—3 mm.

Albedo color.—Yellow 2C.

Quantity of fruit segments per fruit.—8.2 (average of 25 fruit).

Toughness of segment membrane.—Moderate.

Juice sac length.—9 mm.

Juice sac shape.—Cylinder.

Juice sac length to width ratio.—9:1.5.
Juice sac color.—Yellow 2C.
Flesh color.—Yellow 2C.
Juice soluble solids (° brix).—7.5.
Relative harvest maturity.—Early.
Harvest window (date range).—January through
 December.
Seeds present.—None or very few.
Stem length.—20 mm.
Stem diameter.—4 mm.
Stem color.—Yellow-green 144B.

Parthenocarpy.—Absent.
Diseases and pests.—No distinguishing resistance or
 susceptibility noted.
 Harvest yield: 50 to 100 tons per hectare.
 5 Market use: Fresh.
 Keeping quality: Same as 'Eureka'.
 Shipping quality: Same as 'Eureka'.
 The invention claimed is:
 1. A new and distinct variety of lemon tree, substantially
 10 as illustrated and described herein.

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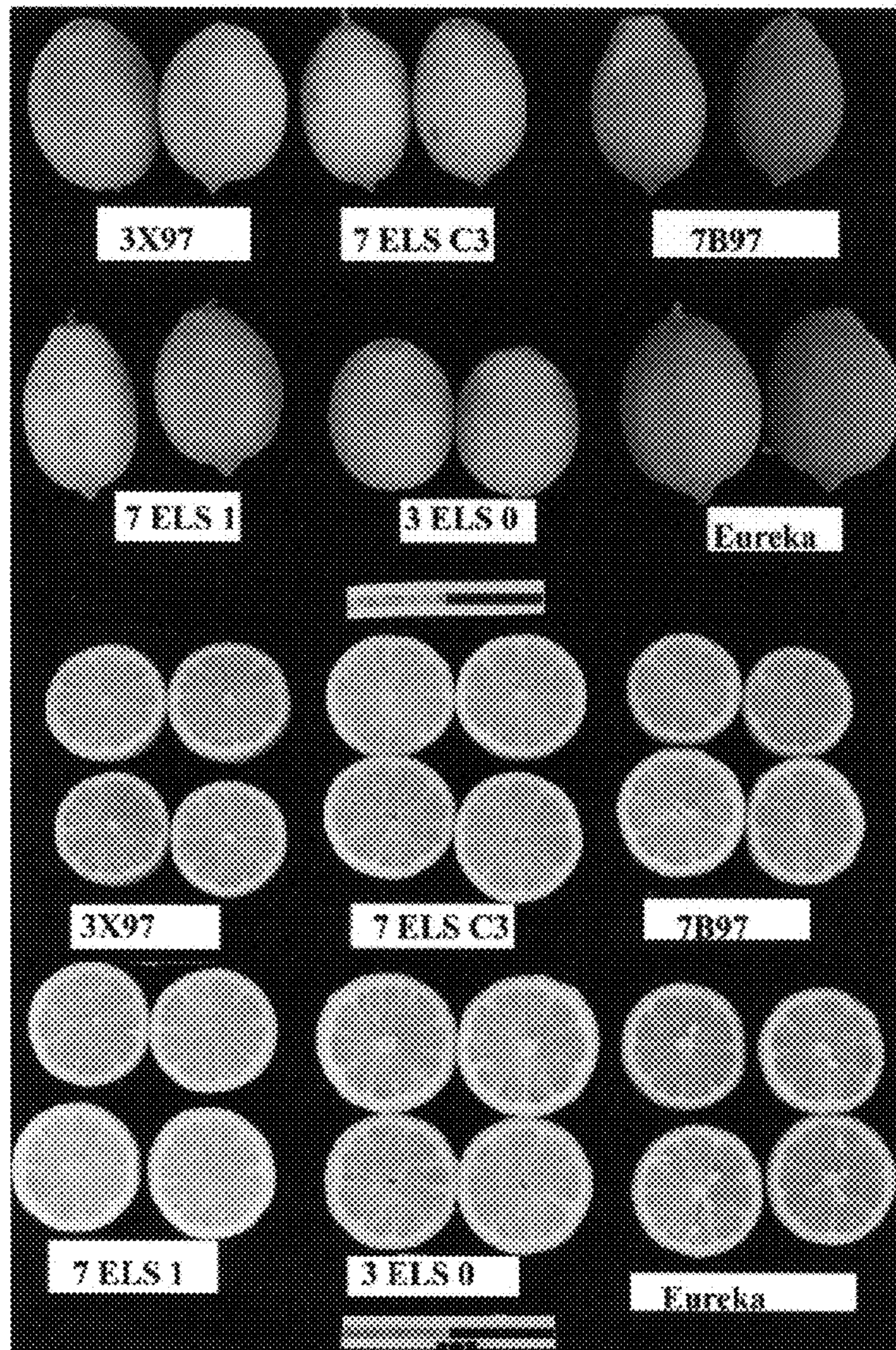


FIG. 1



FIG. 2

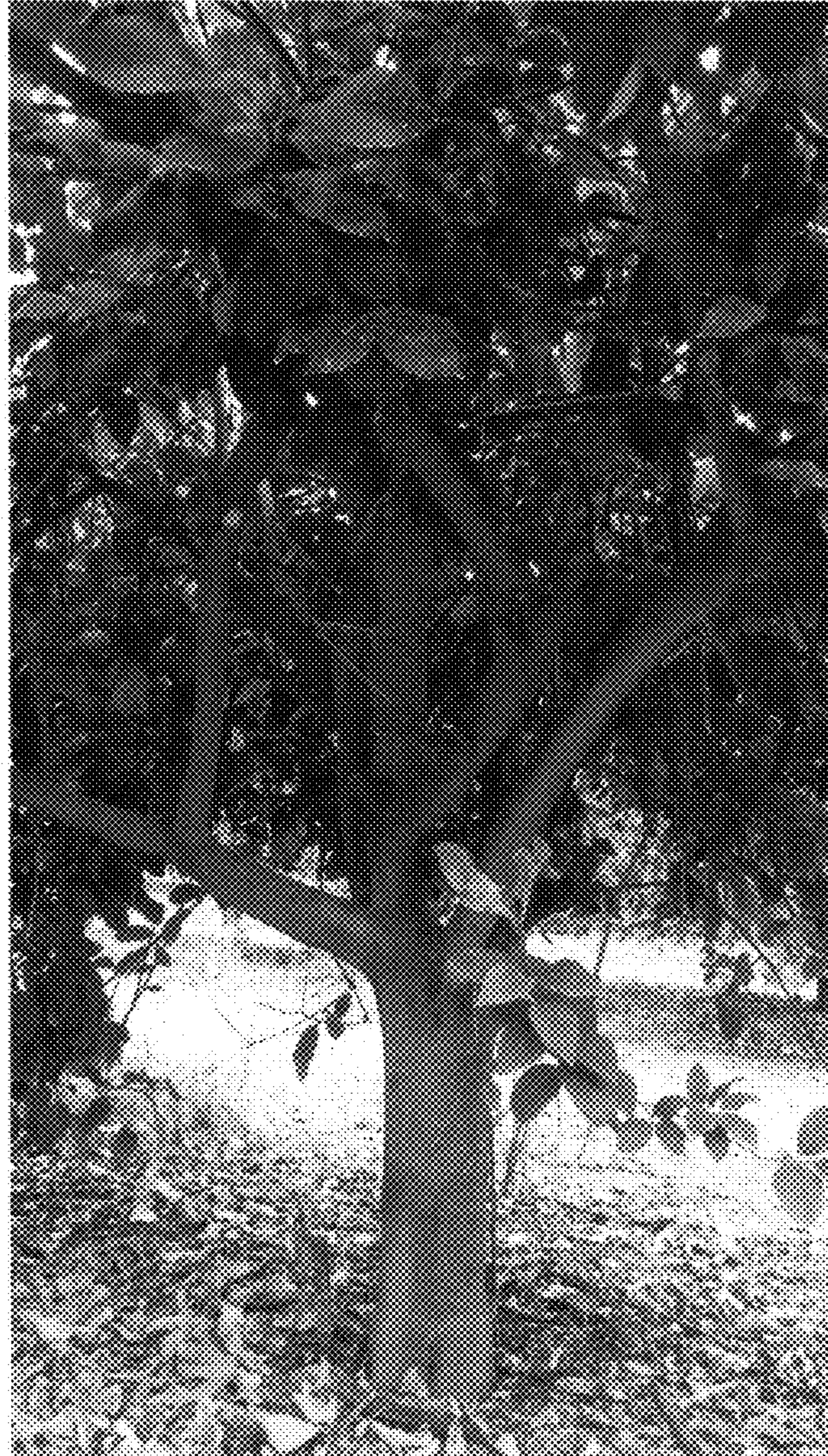


FIG. 3



FIG. 4