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Martinez

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(54) **SEEDLESS TABLE GRAPE (GRAPEVINE)**
NAMED ‘ITUMSEVENTEEN’

(50) Latin Name: *Vitis vinifera*
Varietal Denomination: **Itumseventeen**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.**
A01H 5/08 (2018.01)
A01H 6/88 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./205**

(58) **Field of Classification Search**
USPC **Plt./156, 205, 206, 207**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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UPOV-PLUTO: Plant Variety Database, Feb. 9, 2021, citation for
‘Itumseventeen’. (Year: 2021).*

* cited by examiner

Primary Examiner — Susan McCormick Ewoldt
Assistant Examiner — Karen M Redden

(57) **ABSTRACT**

A new and distinct variety of grapevine named of ‘Itum-
seventeen’ is herein disclosed. ‘Itumseventeen’ abundantly
forms medium sized light green to yellow colored berries
with an attractive broad ellipsoid berry shape, a Muscat
flavor and a firm berry texture. Being mid-season variety, the
fruit commonly is ready for harvesting in from July to early
September in Blanca, Murcia, Spain. ‘Itumseventeen’ dis-
plays good eating qualities as a table grape, the fruit meati-
ness and firmness render the fruit amenable for handling,
shipping, and storage.

5 Drawing Sheets

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Latin name of the genus and species: *Vitis vinifera*.
Variety denomination: ‘ITUMSEVENTEEN’.

BACKGROUND OF THE INVENTION

A breeding program was initiated during 2003 at a
research nursery in Blanca, Murcia, Spain. During the
development of this breeding program, a new variety of *Vitis*
vinifera was created by deliberate cross breeding of two
parent plants by emasculation of the pollen bearing organ of
the female and introducing pollen from another male origin.
The female parent of the new variety is ‘ITUM-150-242’, an
unpatented proprietary selection. The male parent (i.e. the
pollen parent) of the new variety is ‘Superior’, unpatented.

‘Itumseventeen’ was identified as a potentially interesting
selection during 2014 at the same location in Murcia, Spain.
After identifying the new variety as a potentially interesting
selection, first propagation of ‘Itumseventeen’ by vegetative
cuttings was undertaken during 2015, at the research nursery
in Murcia, Spain. Controlled testing and propagation of the
new variety continued, to assess stability of the unique
characteristics of this variety. Subsequently, several genera-
tions have been reproduced and have shown that the unique
features of this cultivar are stable and reproduced true to
type No commercial sales occurred before the filing of the
US plant patent application.

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SUMMARY OF THE INVENTION

The cultivar ‘Itumseventeen’ has not been observed under
all possible environmental conditions. The phenotype may
vary somewhat with variations in environment such as
temperature, day length, and light intensity, without, how-
ever, any variance in genotype. The new variety ‘Itumsev-
enteen’ is a yellow to light green seedless table grape with
medium production and a high fertility index “1, 6”. In
addition to the before mentioned characteristics, the follow-
ing traits have been repeatedly observed and are determined
to be the unique characteristics of ‘Itumseventeen’. These
characteristics in combination distinguish ‘Itumseventeen’
as a new and distinct *Vitis* cultivar:

1. Medium sized individual fruit with yellow to light
green skin coloration; formed in medium-to-large clus-
ters.
2. An attractive broad ellipsoid berry shape.
3. A mid-season season variety, commonly bears fruit for
harvesting from July until early September in the
region of Murcia, Spain.
4. Firm berry texture.
5. Seedless.
6. Resistance to cracking.
7. Fruit has been found to be suitable for handling and
shipping.
8. Observed tolerance of water shortage.

9. Observed tolerance for temperatures up to 41° C.
10. Muscat flavor profile.

COMPARISON TO PARENT VARIETIES

TABLE 1

Characteristic	'Itumseventeen'	Parental A (fem) 'ITUM-150-242'
Berry texture	Firm	Moderately firm
Formation of Seeds	Seedless	Rudimentary
Characteristic	'Itumseventeen'	Parental B (masc.) 'Superior'
Berry Flavor:	Muscat	Neutral
Berry Shape:	Broad ellipsoid	Ellipsoid

COMMERCIAL COMPARISON

TABLE 2

Characteristic	'Itumseventeen'	'Moscatel de Alejandria' (unpatented)
Berry Texture	Firm	Soft
Berry Shape	Broad ellipsoid	Ellipsoid
Presence of Seeds	Seedless	Complete
Characteristic	'Itumseventeen'	'Sugarone' U.S. Plant Pat. 3,106
Berry Shape	Broad ellipsoid	Narrow ellipsoid

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographic illustrations show typical samples of vegetative growth of a 5 year old specimen of the new variety, in color as nearly true as it is reasonably possible to make in a color illustration of this character. Plants were grown in Murcia, Spain. Colors in the photograph may differ from the color values cited in the detailed botanical description below, which accurately describes the colors of the new Grapevine.

FIG. 1 illustrates a fruit cluster of 'Itumseventeen'.

FIG. 2 shows a close-up view of the trunk of 'Itumseventeen'.

FIG. 3 illustrates in close up perspective typical foliage of the new variety, both front and back of the leaf.

FIG. 4 illustrates individual berries.

FIG. 5 illustrates a small test field of fruiting vines.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Colour Chart 2015 except where general terms of ordinary dictionary significance are used. Some descriptors, when useful have been incorporated from *UPOV Grape Descriptor Guidelines*. The description is based on the observation of plants growing on '1103 Paulsen' (not patented) rootstock in clay stony soil conditions in the fields near Blanca, Murcia, Spain. The age of

plant described is of 5 years, with an average height of 200 cm, a high canopy density, a 300 cm plant spread, a one-year growth rate to reach two meters high and 20 to 30 days to initiate roots at approx. 20° C. At observation location temperature ranged between 15° C. to 35° C. during the day, and between 5° C. to 20° C. during the night.

Botanical classification: *Vitis vinifera* 'Itumseventeen'.

CANES

Characteristics of mature canes:

Diameter.—1.8 to 2.6 cm.

Length.—60 to 70 cm.

Color.—Medium light brown (164C RHS).

Cross section shape.—Circle.

Strength.—Medium.

Texture.—Non-pubescent, rough.

Lenticels:

Diameter.—<0.5 mm.

Density.—Few to-moderate.

Color.—Medium light brown (164C RHS).

Internode:

Length.—8-12 cm; midpoint 10 cm.

Pigmentation at internode, dorsal.—Near RHS Greyed-Orange 164C).

Pigmentation at internode, ventral.—Near RHS Greyed-Orange 164C).

Tendrils pattern on shoot: 0,0,0,0,0,1,0 or 0,0,0,0,0,0,1.

Tendrils forked.—Yes.

Tendrils texture.—Glabrous.

Tendrils length.—14 to 18 cm.

Bud:

Bud width.—1.1 to 1.2 cm.

Bud length.—0.4 cm.

Bud shape.—Flattened.

Bud color.—Light yellow brown Near RHS Greyed-Yellow 161D, flushed 162D.

Young shoot:

Openness of tip.—Open. Anthocyanin not present in Shoot pigmentation.

Texture.—Smooth.

Diameter.—0.8 to 1.2 cm.

Longitudinal length.—2.0 to 4.0 m; average 2.5 m.

Color.—Near RHS Greyed-Orange 164D, streaked 165D.

Cross section.—Circular.

Strength.—Medium.

Attitude.—Semi-erect.

Bark texture.—Shaggy.

Bark color.—Near RHS Greyed-Red 178A streaked 180B.

FOLIAGE

Leaf:

Arrangement.—Alternate.

Quantity.—Approximately 15 per cane.

Average length.—18 cm.

Average width.—18 cm.

Overall shape of blade.—Orbicular.

Apex.—Acute.

Base.—Rounded.

Margin.—Dentate, teeth approximately 5 to 10 mm in length. Ratio of length to width about 1:1. Both sides of teeth straight or slightly convex oneside.
Texture of top surface.—Smooth.

Texture of bottom surface.—Smooth.

Pubescence.—None.

Aspect.—Undulate.

Lobes.—3 to 5 very shallow lobes.

Sinuses:

Shape of petiolar sinus.—High widened.

Shape of base petiolar sinus.—High widened.

Depth of petiolar sinus.—1.1 cm.

Width of petiolar sinus.—2.2 cm.

Shape of upper sinuses.—Low widened.

Color:

Immature foliage upper side.—Near RHS Yellow-Green 154D streaked 150D.

Immature foliage under side.—Near RHS Yellow-Green 154D streaked 150D.

Mature foliage upper side.—Near RHS Green 137A.

Mature foliage under side.—Near RHS Yellow-Green 144A.

Venation:

Type.—Pinnate.

Venation color upper side.—Near RHS Yellow-Green 154C, anthocyanin coloration not observed.

Venation color under side.—Near RHS Yellow-Green 154C, anthocyanin coloration not observed.

Petiole:

Length.—14 cm.

Diameter.—0.3 cm.

Color.—Near RHS Yellow-Green 144A) with strong Anthocyanin presence near base, Red 36C.

Texture.—Rough.

FLOWER

Flowering period begins around May 6 to 10 in Murcia, Spain.

Inflorescence when in bud:

Length.—10 cm.

Diameter.—4 cm.

Bud color.—Near RHS Green 140B.

Bud shape.—conical.

Bud size.—About 1 to 2 mm by 1 to 2 mm.

Individual flower:

Main time of flowering.—7 days.

Size of entire flower (to end of stamens).—0.7 cm.

Calyx shape.—Funnel.

Calyx size.—15 mm.

Calyx color.—Near RHS Green 140B.

Calyx apex.—Rounded.

Calyx base.—Rounded.

Calyx texture.—Glabrous all surfaces.

Diameter.—7 mm.

Quantity per flowering stem.—5.

Days lasting on plant.—7 days.

Petals:

Quantity.—5.

Arrangement.—Symmetrical rotate.

Length.—0.2 cm.

Width.—<0.1 cm.

Shape.—Obovate.

Apex.—Ovate.

Base.—Ovate.

Texture, upper and lower surfaces.—Soft.

Color.—At opening upper surface: Near RHS Green 140B. At opening lower surface: Near RHS Green 140B. Fully opened upper Surface: Near RHS Green 140B.

5 Peduncles:

Fruit peduncle length.—75 mm.

Fruit peduncle width.—5 mm.

Angle.—About 70° to the lateral branch.

Fruit peduncle strength.—Firm-hard.

10 *Fruit peduncle texture.*—Soft.

Color.—Light green (142D RHS).

Pedicels:

Length.—0.4 cm.

Diameter.—0.1 cm.

15 *Angle.*—About 70° to center of flower cluster.

Strength.—Medium.

Texture.—Softly pubescent.

Color.—Near RHS Green 141C.

Fragrance: Absent.

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REPRODUCTIVE ORGANS

Number of stamens: 5.

Anthers:

Shape.—Oblong.

Length.—Approximately 0.1 cm.

Color.—Near Yellow 9C.

Pollen:

Color.—Near Yellow 8A.

30 Quantity: Abundant.

Pistil:

Quantity.—1.

Length.—0.1 cm.

Style:

35 *Length.*—<0.1 cm.

Color.—Near RHS Green 143C.

Stigma:

Shape.—Round.

Color.—Near RHS Yellow-Green 144D.

40 Ovary color: Near RHS Yellow-Green 144D.

FRUIT

Cluster:

45 *Average length.*—26 cm.

Average diameter.—16 cm.

Average weigh.—650 grams.

Fertility index.—Number of clusters per sprouted buds 1,6.

50 Fruit:

Time of berry ripening.—Ripening begins mid-June.

Average length.—2.9 cm.

Average diameter.—2.1 cm.

Shape.—Broad ellipsoid.

55 *Cross-section.*—Circular.

Color of berry skin.—Near RHS Yellow-Green 154D.

Color of berry flesh.—Translucent, near White 155B, anthocyanin coloration not observed.

Brix at harvest.—21.

60 *Ease of detachment from pedicle.*—Difficult, well hooked and difficult detachment.

Thickness of skin.—Thin.

Firmness of flesh.—Crunchy and very firm.

Particular flavor.—Muscat.

65 *Fruit peduncle length.*—75 mm.

Fruit peduncle width.—5 mm.

Fruit peduncle texture.—Firm, hard.
Fruit peduncle color.—Near Green 142D.
Formation of seeds.—Not present.
Productivity.—Average 42,000 kilos per hectare.

OTHER CHARACTERISTICS

Disease and pest resistance: Not observed to be susceptible
nor resistant to normal diseases and pests of *Vitis vinifera*.

Temperature tolerance: Observed growing between 6° C. to
41° C.
Drought tolerance: Observed to tolerate water shortages
during the dry Summer months of Murcia, Spain without
detriment.
What is claimed is:
1. A new and distinct cultivar of *Vitis* grapevine named
'Itumseventeen' as herein illustrated and described.
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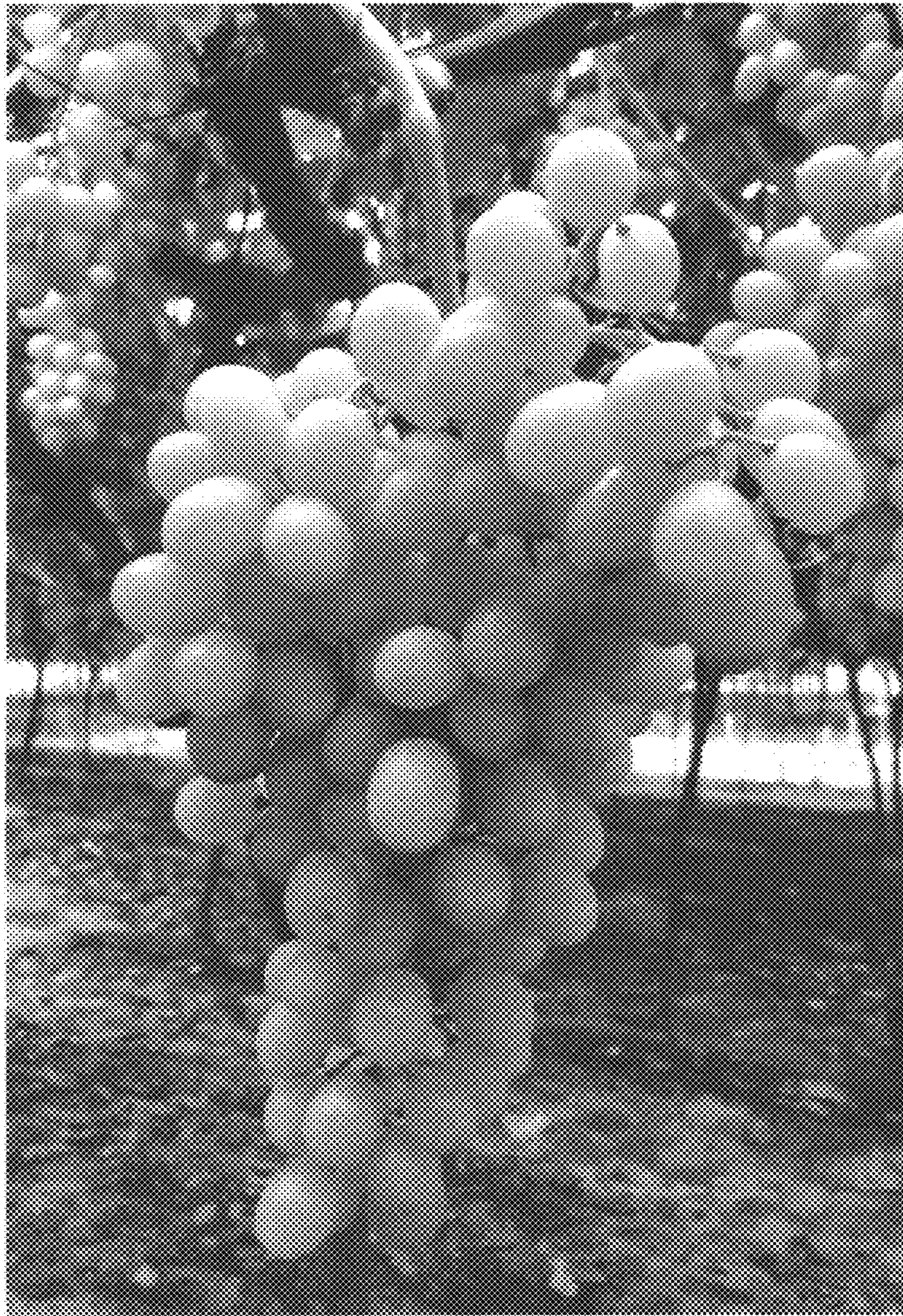


FIG. 1



FIG. 2

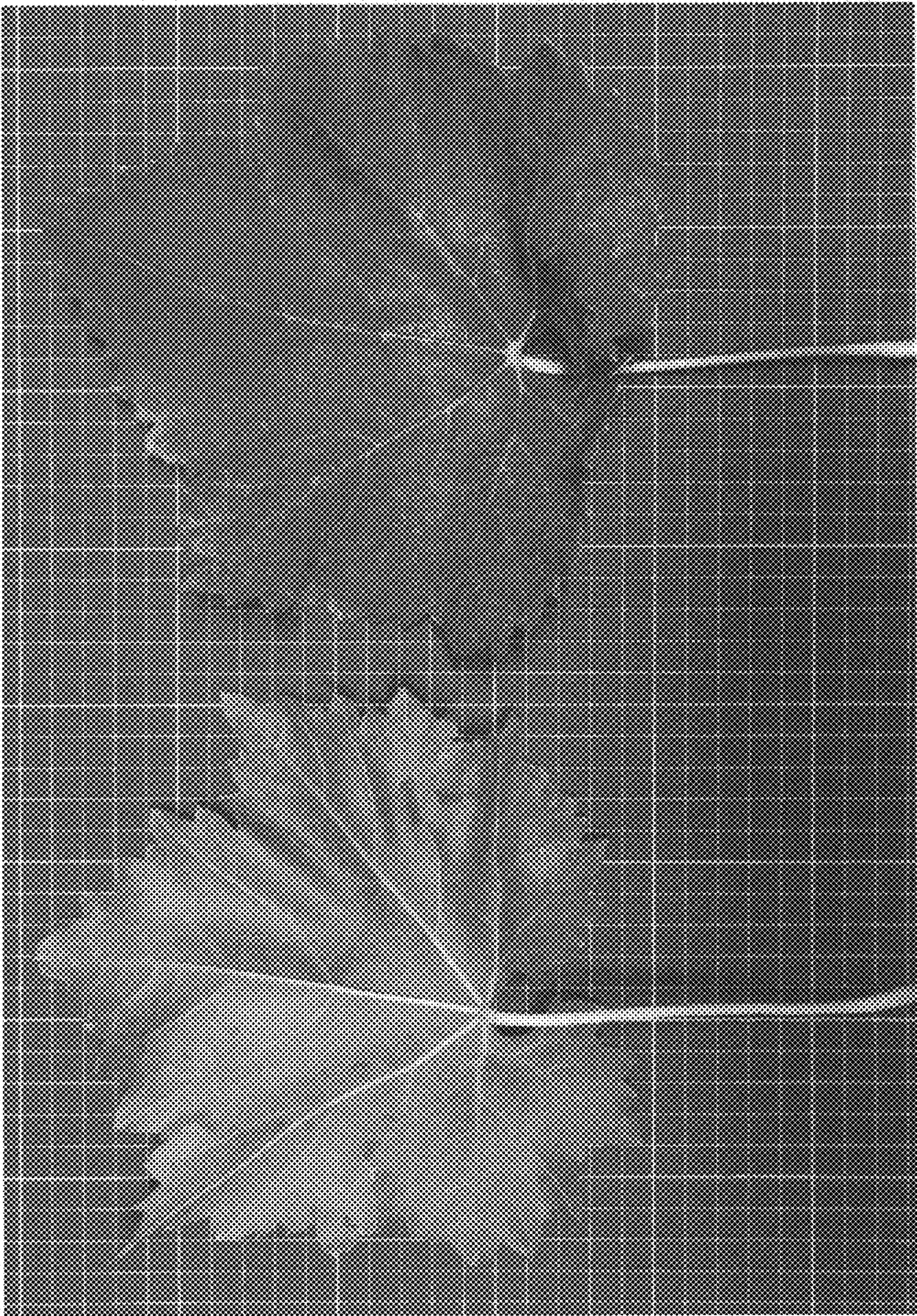


FIG. 3

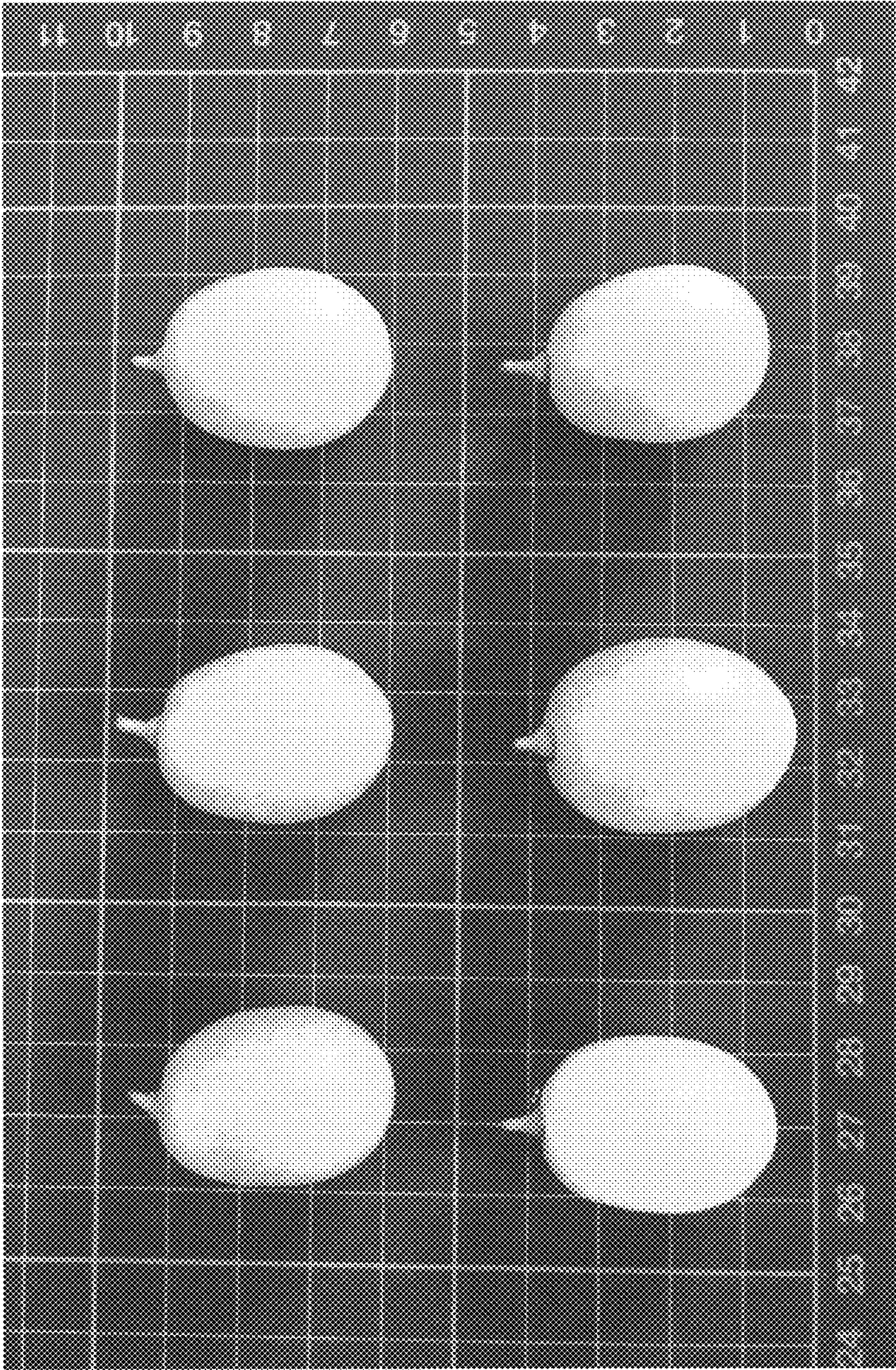


FIG. 4

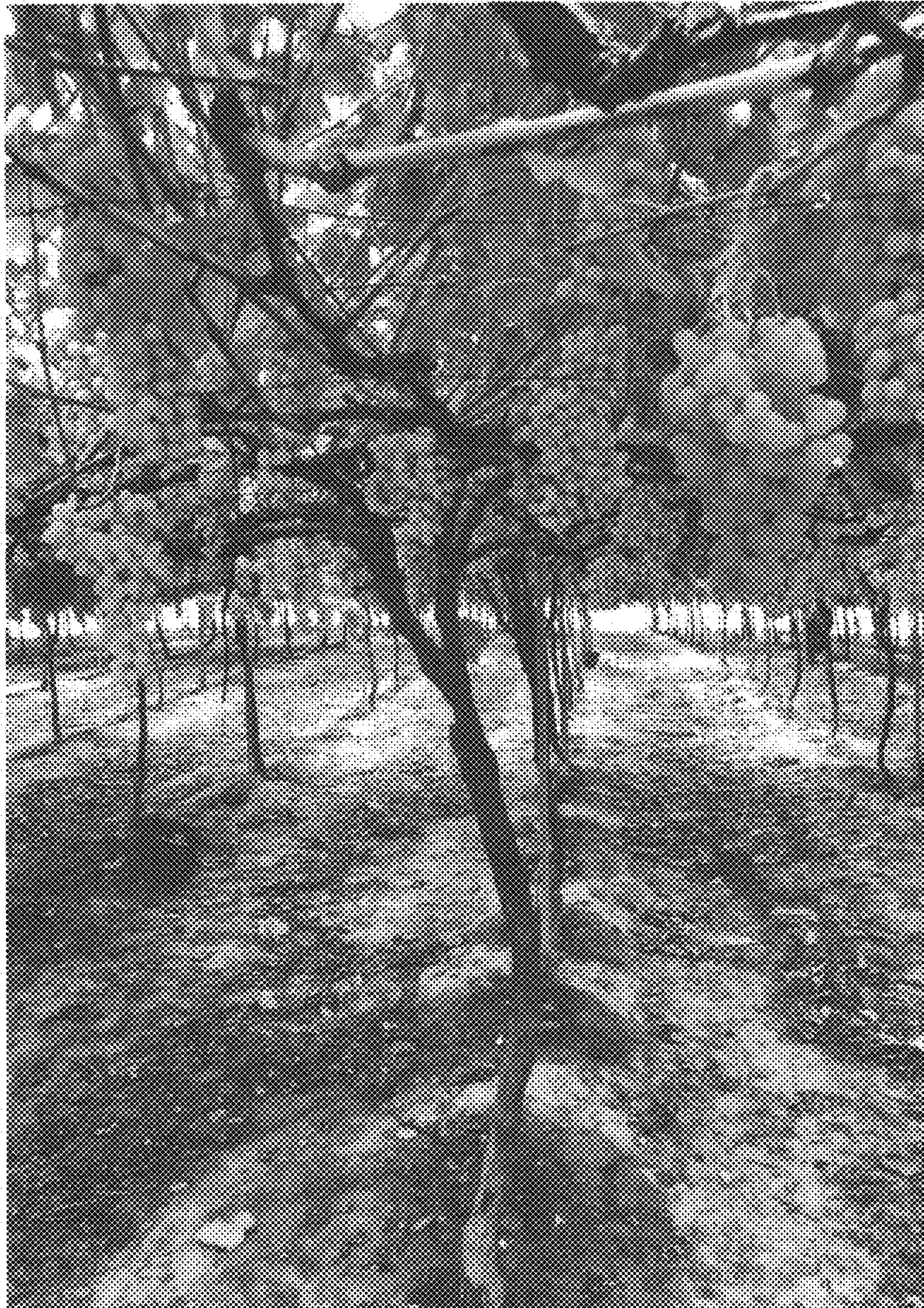


FIG. 5