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Kwon et al.

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(54) **APPLE TREE NAMED ‘PICNIC’**

(50) Latin Name: ***Malus domestica* Borkh.**
Varietal Denomination: **Picnic**

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patent is extended or adjusted under 35
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(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.**
USPC **Plt./161**

(58) **Field of Classification Search**
USPC Plt./161
See application file for complete search history.

(56) **References Cited**

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(57) **ABSTRACT**

A new and distinct variety of apple tree variety ‘Picnic’ is
described herein. ‘Picnic’ fruit is small, conical, red, not
smooth, low brightness, and matures in late September.

8 Drawing Sheets

1

STATEMENT REGARDING U.S. FEDERAL
FUNDING

Research related to this invention was not made with any
United States Government support and the United States
Government has no rights in the invention.

Genus and species: *Malus domestica* Borkh.
Variety denomination: ‘Picnic’.

BACKGROUND OF THE INVENTION

I. Field & Utility Summary

The present invention relates to a new and distinct variety
of apple tree. The apple tree is particularly useful in that it can
be propagated clonally and provides distinctive fruit
attributes.

II. Cultivation Summary

‘Picnic’ originated from a planned cross in 1994 in Korea.
The seed parent was ‘Fuji’ and the pollen parent was ‘Sansa’.

III. Parental Comparisons

‘Picnic’ is similar to parent ‘Fuji’ in fruit color. ‘Picnic’
differs from parent ‘Fuji’ in fruit size, shape and timing of
maturation. ‘Picnic’ fruit is small, conical, and matures in late
September, whereas parent ‘Fuji’ fruit is medium to large,
oblate, and matures in late October.

‘Picnic’ is similar to parent ‘Sansa’ in fruit size and shape.
‘Picnic’ differs from parent ‘Sansa’ in fruit color and matu-
ration. ‘Picnic’ fruit surface is red and matures in late Sep-
tember, whereas ‘Sansa’ fruit surface is striped or mottled red
over lighter color and matures in late August.

2

‘Picnic’ is different from both parents ‘Sansa’ and ‘Fuji’
because ‘Picnic’ fruit is small, conical, red, and matures in
late September.

IV. Closest Non-Parental Comparator

‘Picnic’ differs from non-parent comparator ‘Gamhong’ in
fruit shape, size, smoothness, and brightness. ‘Picnic’ fruit is
conical, small, not smooth, and has low brightness, whereas
‘Gamhong’ fruit is oblong, large, smooth, and has medium
brightness.

V. Breeding History

In 1994, pollen from ‘Sansa’ apple tree was applied to
emasculated flowers of a ‘Fuji’ apple tree in Korea. Between
2001 and 2003, the seeds derived from this pollination were
extracted from mature fruit derived from this cross and
screened to obtain favorable seedlings. Between 2004 and
2008, the seeds were screened and regional adaptability tests
were carried out before a variety was selected and named
‘Picnic’ in 2008. The selected variety was then planted by
asexual propagation for five generations.

VI. Asexual Reproduction

Asexual reproduction of ‘Picnic’ has been achieved using
traditional grafting techniques. Five centimeter sections of
branches from a stable ‘Picnic’ plant were cut, and grafted
onto pieces of rootstock. Approximately three buds were
present on each 5 cm branch piece. The grafted plant was
grown under standard conditions.

VII. Stability

Observations of trees from clonal propagations indicate
that all trees have proven true to type and identical in all

appearances to the original tree. No genetic variations were found, and therefore, its traits are stable.

SUMMARY OF THE INVENTION

'Picnic' apple tree produces fruit that is small, conical, red, not smooth, low brightness, and matures in late September.

BRIEF DESCRIPTION OF THE FIGURES

FIG. 1 shows the live 'Picnic' plant.
 FIG. 2 is a schematic depicting the parentage of 'Picnic'.
 FIG. 3 shows dormant wood of 'Picnic'.
 FIG. 4 shows the adaxial (upper) and abaxial (lower) surface of mature leaves of 'Picnic'.
 FIG. 5 shows the adaxial (upper) cut surface of leaves of 'Picnic'.
 FIG. 6 shows typical inflorescence of 'Picnic'.
 FIG. 7 shows various aspects of the fruit of 'Picnic', including a view of the cavity (stem end), basin (calyx end), side view, a transverse sectional and a longitudinal sectional, showing the seeds, flesh and outer skin.
 FIG. 8 shows seeds of 'Picnic'.

DETAILED BOTANICAL DESCRIPTION

The following description of 'Picnic' contains references to color names taken from The Royal Horticultural Society Colour Chart (R.H.S.), 2001 edition. Botanical descriptions follow the Manual of Cultivated Plants (Bailey, 1949).

Tree:

Habit.—Upright-semi-spreading. 6 year old under good growing conditions.

Size.—Height: 4.5 m. Width: 2 m.

Trunk: 1 year old branches of dormant wood.

Diameter of the middle.—5.07 mm.

Length.—1.86 mm.

Number of lenticels.—Middle.

Stem:

Color (RHS).—166A.

Length.—45 cm.

Diameter.—6.2 mm.

Pubescence.—Many.

Shape.—Straight.

Odor.—None (of bruised stem).

Internode length.—2.48 cm.

Leaves:

Mature leaves.—Leaf arrangement: Dislocated. Shape:

Length of leaf is longer than width.

Size.—Length: 8.72 cm. Width: 4.60 cm.

Apex.—Sharp.

Base.—Narrow.

Margin.—Jagged.

Upper surface.—Color (RHS): 141A. Texture: Rough.

Lower surface.—Color (RHS): 134A. Texture: Rough.

Venation.—There are five on each side, and arranged asymmetric.

Pubescence.—Medium.

Lobes (absent).—Number: Zero.

Petiole.—Length: 31.55 mm. Shape: Straight. Color (RHS): 59A. Pubescence: Medium. Diameter: 1.6 mm.

Flowers:

Inflorescence.—Number of individual flowers per stem: 5.

Individual flower.—Axillary, terminal: Rare. Symmetry: Asymmetry.

Petals.—Size (L×W): Diameter 40 mm. Shape: Oval. Apex (RHS): 155D. Base (RHS): 155D. Margin (RHS): 155D. Color at peak of bloom: Upper (RHS): 155D. Center (RHS): 62A.

Pedicels.—Color (RHS): 177D. Pubescence: Medium. Length: 25.3 mm.

Sepals.—Number: 5. Size (L×W): 7 mm×7 mm. Shape: Triangle. Pubescence: Medium. Color (RHS): 155D.

Stamens.—Number: 18. Size (L×W): L 18 mm. Color (RHS): 3A. Pollen color (RHS): 3A. Pubescence: Rare.

Pistils.—Number: 5. Size of style (L×W): L 20 mm. Color of style (RHS): 4D. Color of stigma (RHS): 4D.

Bracts.—Number: 18. Size (L×W): L18 mm×W12 mm. Color (RHS): 134A. Shape:

Fruit:

Size.—Height: 66.5 mm. Diameter: 76.3 mm.

Shape.—Color (RHS).—45A.

Observed fruit weight.—233 g.

Flesh.—High firmness.

Sepal.—7 mm×7 mm.

Calyx.—Size: 7 mm×7 mm.

Flesh.—Color (RHS): 3D. Taste: Good.

Aperture eye stalk bloom.—

Percent soluble solids.—14.2° Bx.

Titrateable acidity.—0.43%.

Penetrometer.—43.15N.

Seed:

Color (RHS).—200D.

Size.—Height: 9 mm. Diameter: 4 mm.

Number.—8.

Disease resistance: Resistance to bitter rot.

The invention claimed is:

1. A new and distinct variety of apple tree named 'Picnic' as described and illustrated herein.

* * * * *

Figure 1



Figure 2

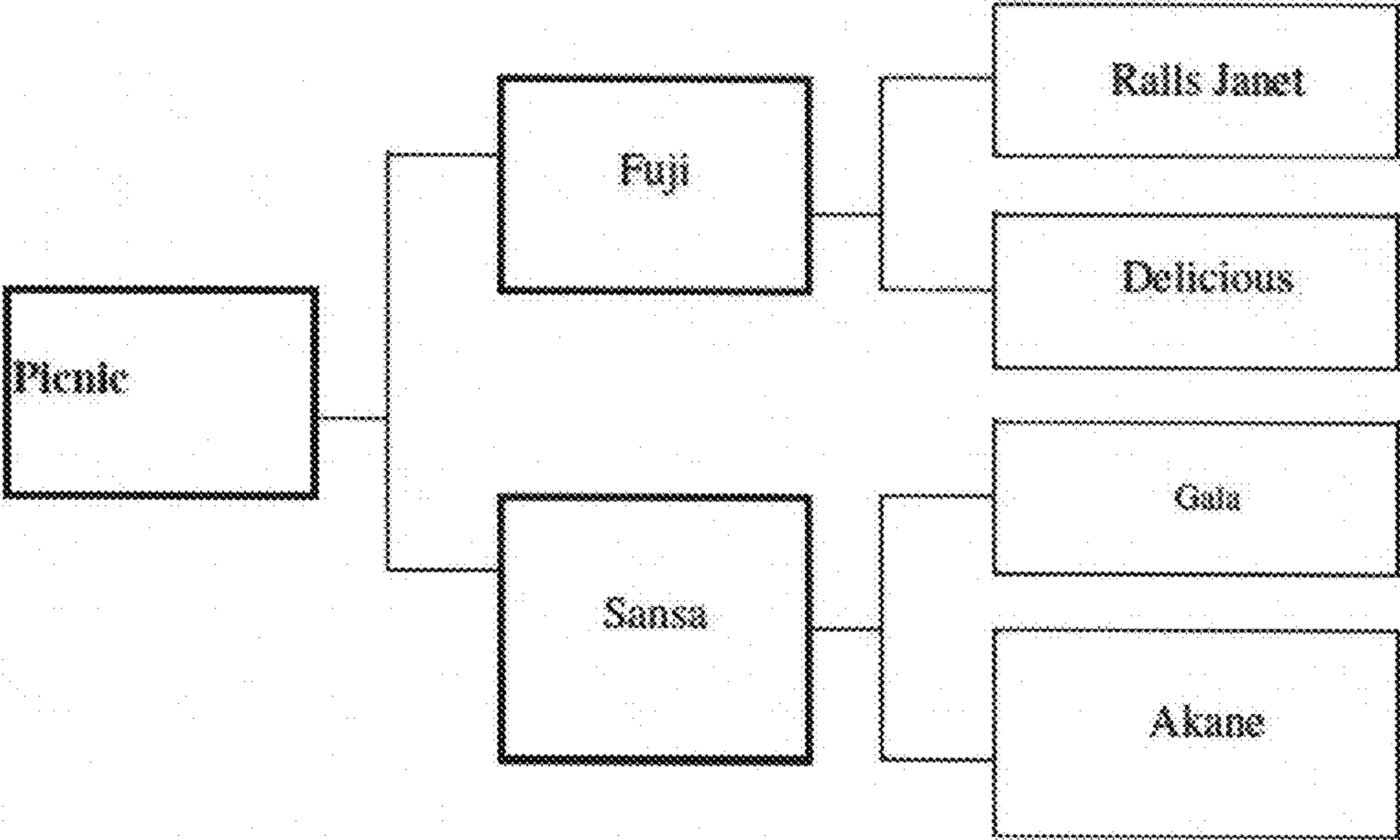


Figure 3

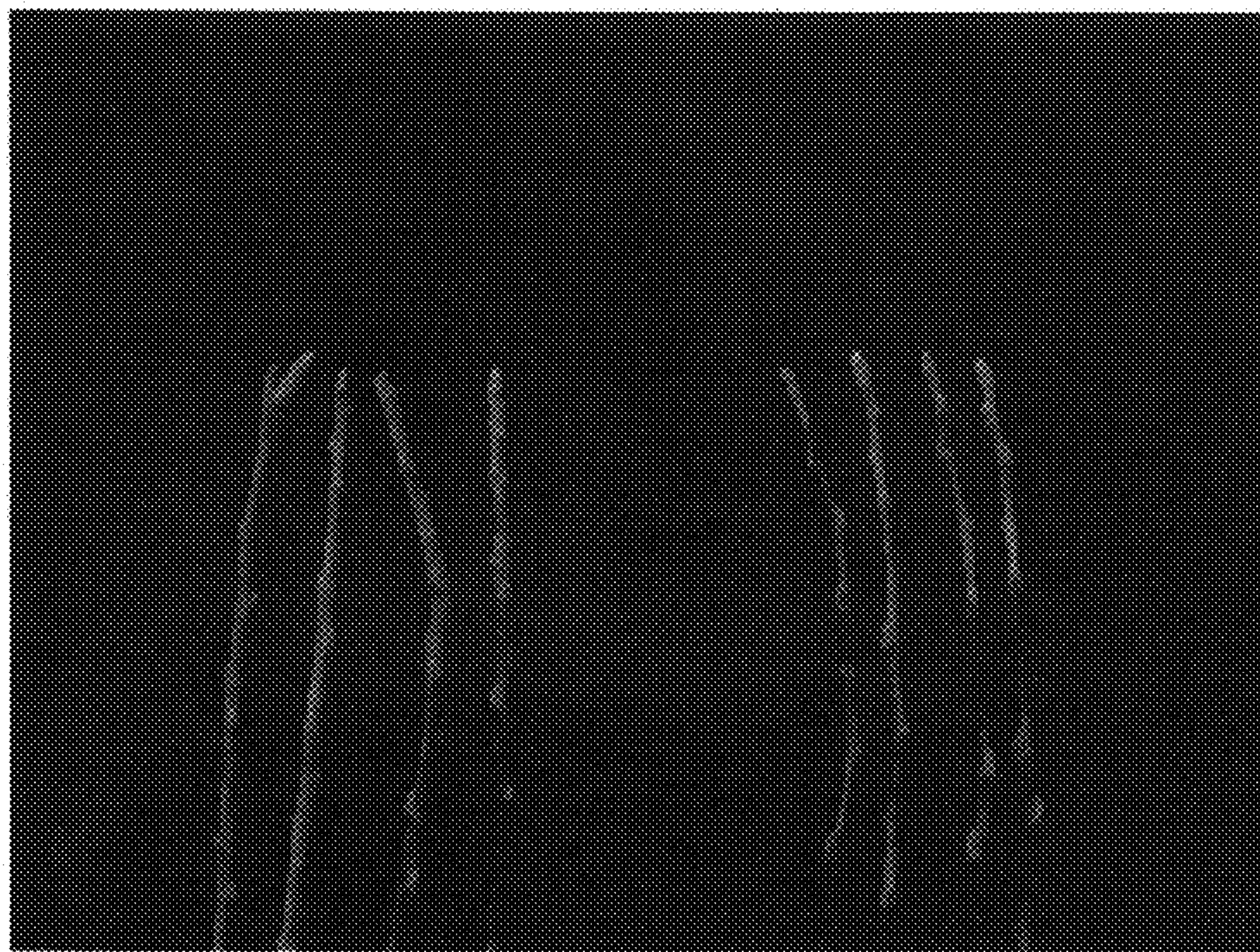


Figure 4

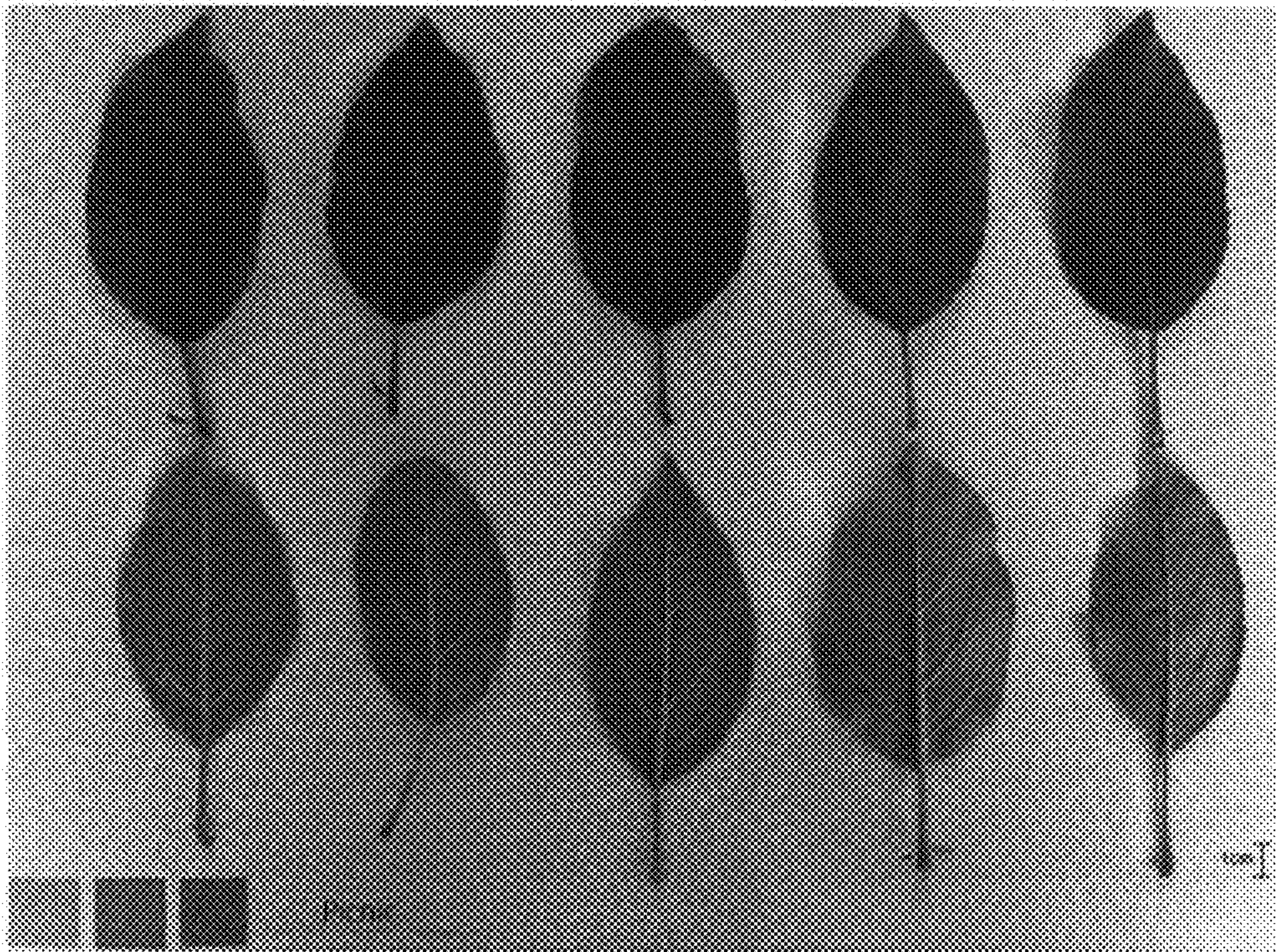


Figure 5

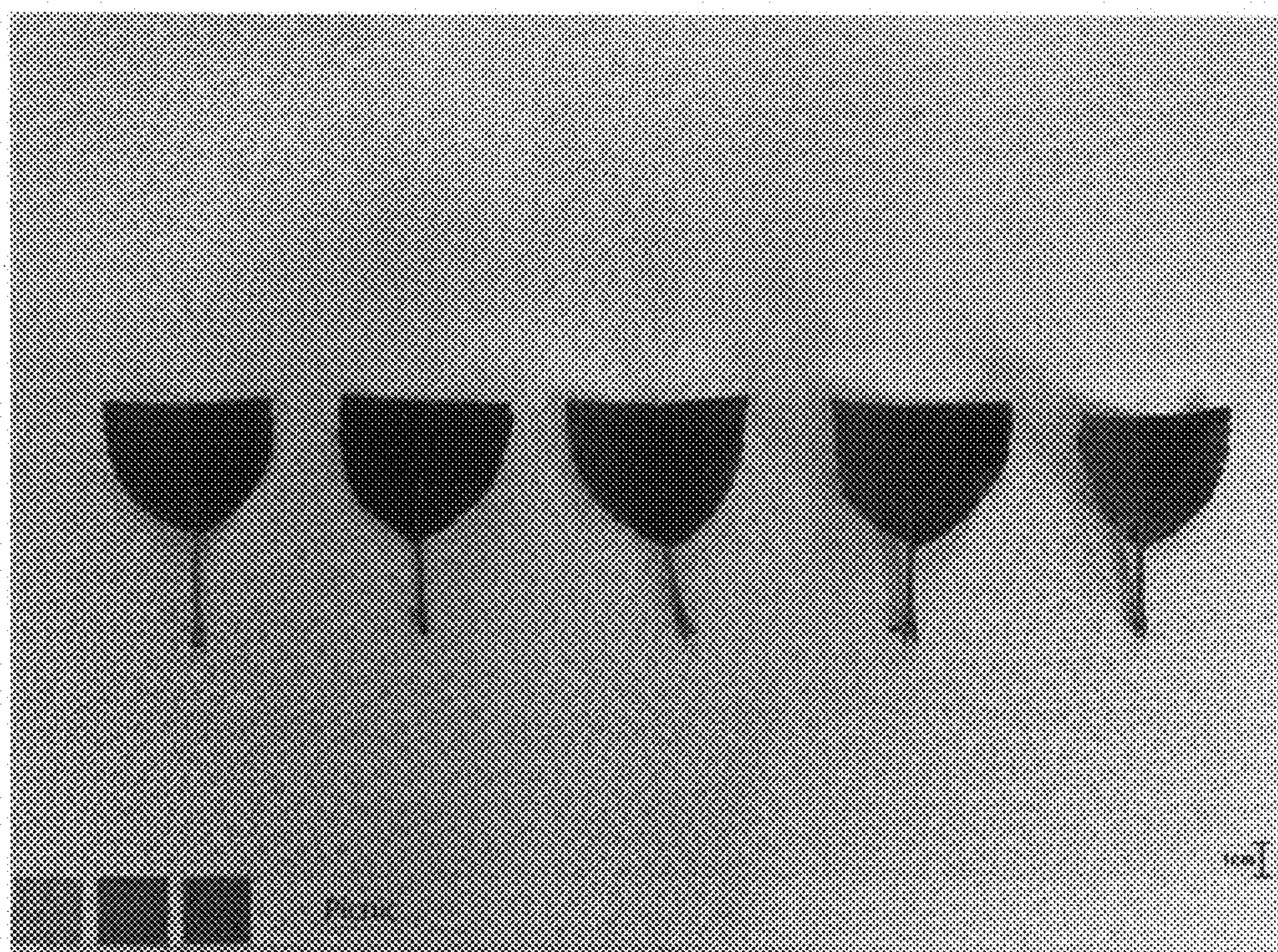


Figure 6



Figure 7

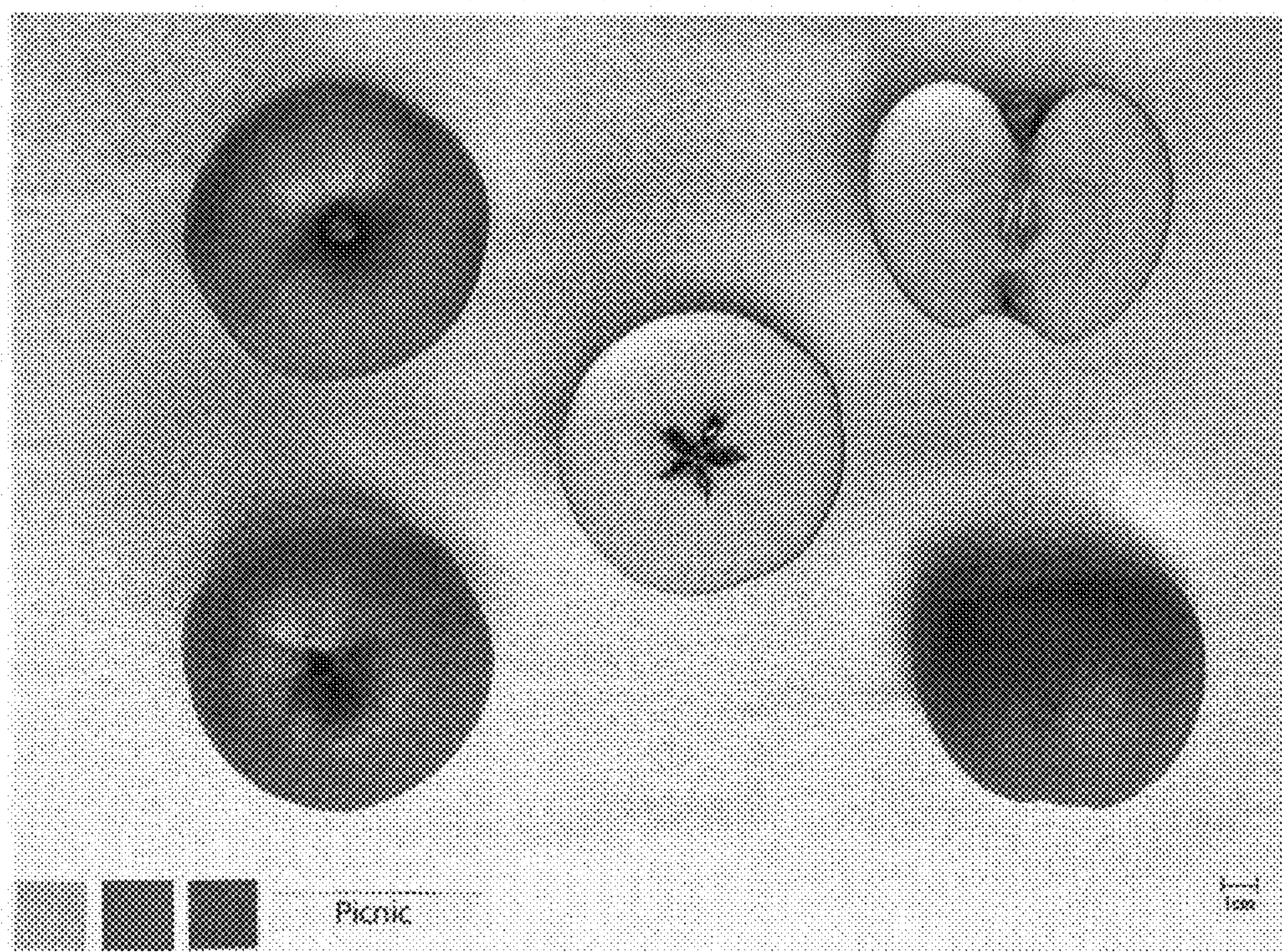


Figure 8

