

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

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(45) **Date of Patent:** **Jan. 31, 2017**

(54) **APPLE TREE NAMED ‘LUREGUST’**

(50) Latin Name: *Malus domestica*
Varietal Denomination: **Luregust**

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(72) Inventor: **Markus Kobelt**, Buchs (CH)

(73) Assignee: **Lubera AG**, Buchs (CH)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 74 days.

(21) Appl. No.: **14/544,117**

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(65) **Prior Publication Data**
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(51) **Int. Cl.**
A01H 5/08 (2006.01)

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

(58) **Field of Classification Search**
USPC Plt./161
CPC A01H 5/0875
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

GTITM UPOVROM Citation for ‘Luregust’ as per CH PBR 13-2851; Mar. 31, 2013.*

* cited by examiner

Primary Examiner — Kent L Bell

(74) *Attorney, Agent, or Firm* — The Webb Law Firm

(57) **ABSTRACT**

A new and distinct *Malus domestica* plant that produces apples having a red flesh color and good eating quality.

8 Drawing Sheets

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Botanical classification: *Malus domestica*.
Varietal denomination: ‘Luregust’.

BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of apple tree botanically classified as *Malus domestica* and known by the varietal name ‘Luregust’. The new variety was discovered in September of 2006 in Buchs, Switzerland. The new variety is the result of planned breeding program, in which *Malus domestica* ‘LubA793’ (female parent, unpatented) was crossed with *Malus domestica* ‘LubA264’ (male parent, unpatented). The purpose of the breeding program was to develop red-fleshed apples having an improved eating quality. The new variety exhibits similar sugar content and scab resistance to its female parent, but has larger fruits. The new variety exhibits similar red flesh and level of acidity to its male parent, but has a sweeter taste. The red flesh color combined with good eating quality of ‘Luregust’ distinguishes the new variety from other *Malus domestica* varieties known to the inventor. Its red flesh color and high acidity content are similar to *Malus domestica* ‘Luresweet’ (U.S. Plant patent application Ser. No. 14/544, 112, concurrently applied-for herewith). However, ‘Luregust’ has more perfume and less sugar than ‘Luresweet’.

The new variety has been trial and field tested and has been found to retain its distinctive characteristics and remain true to type through successive propagations.

DESCRIPTION OF THE DRAWINGS

The accompanying photographic drawings illustrate the new cultivar, with the color being as nearly true as is possible with color illustrations of this type:

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FIG. 1 is a close-up view of fruits of the new variety at maturity on the tree;

FIG. 2 shows fruits of the new variety at maturity on the tree;

5 FIG. 3 is a longitudinal, cross-sectional view of a fruit of the new variety;

FIG. 4 is transverse, cross-sectional view of a fruit of the new variety;

FIG. 5 shows buds and flowers of the new variety;

10 FIG. 6 is a close-up view of the flowers of the new variety;

FIG. 7 shows upper and lower surfaces of young leaves of the new variety; and

15 FIG. 8 shows upper and lower surfaces of mature leaves of the new variety.

DESCRIPTION OF THE PLANT

The following detailed description sets forth the characteristics of the new cultivar. The data which defines these characteristics was collected by asexual reproductions carried out via grafting on *Malus domestica* rootstocks in the Spring of 2007 in Buchs, Switzerland. The new variety was grown in apple orchard under standard apple tree conditions in Buchs, Switzerland. The color readings were taken in natural daylight without direct sunlight. Color references are primarily to The 2007 R.H.S. Colour Chart of The Royal Horticultural Society of London.

TREE

Age: 4 years.

Size: 2.2×0.5 m.

Spread: 3.2×0.5 m.

35 Average production: 6-8 kg per tree in a typical growing season.

Vigor: Medium.

Growth type: Ramified; spreading.

Trunk:

Size.—Average of 22.0 mm in diameter when measured
70 cm above the soil.

Surface texture.—Smooth.

Bark color.—200D.

Lenticels.—Length: 2.0 mm. Width: 0.5-0.6 mm.
Color: 164D. Density: High.

Branches:

Diameter.—Average of 8.0 mm.

Length.—Average of 43 cm.

Color.—187A.

Surface texture.—Smooth, with absent or very weak
pubescence at the distal half of shoots.

Average angle.—60-70°.

Internode length.—Average of 2.5 cm.

Lenticels.—Length: 1.0 mm. Width: 0.5 mm. Shape:
Oval. Density: High. Color: 166A.

Leaves:

Length.—11.0-12.5 cm.

Width.—7.5-8.5 cm.

Shape.—Oval.

Apex.—Pointed.

Base.—Oblong.

Margin.—Crenate.

Texture.—Leathery with a slight shine.

Pubescence.—Upper surface: Absent. Lower surface:
Weak.

Color.—Young leaves: Upper surface: 177A. Lower
surface: 147B. Mature leaves: Upper surface: 147A.
Lower surface: 147B.

Petiole.—Shape, when viewed in cross-section:
Slightly crenate. Length: 4.0-4.5 cm. Diameter: 2.0
mm. Color: 184A.

Veins.—Venation type: Net-like. Color: Upper surface:
184A to 184C. Lower surface: 181C.

Flowers:

Buds.—Pedicels: Length: 28.0-30.0 mm. Diameter:
1.5-2.0 mm. Color: 187C. Bud (terminal): Length:
9.0 mm. Width: 5.0 mm. Color: 59A.

Blooming time.—The end of April in Buchs, Switzer-
land.

Blooming period.—Approximately 15 days.

Pollination requirements.—Cross-pollination is neces-
sary.

Number of flowers per cluster.—6.

Fragrance.—Slight.

Petals.—Number: 5. Length: 21.0-22.0 mm. Width:
14.0-15.0 mm. Shape: Oval. Apex: Rounded. Base:
Rounded. Margin: Smooth and slightly wavy. Tex-
ture and appearance: Soft and fragile.

Color.—When opening: Upper surface: 64B. Lower
surface: 64B. When fully opened: Upper surface:
64C. Lower surface: 64C.

Sepals.—Shape: Oblong. Apex: Rounded. Margin:
Entire. Texture: Soft pubescence present. Length:
8.0-9.0 mm. Width: 3.0-3.5 mm. Color: Upper sur-
face: 148A. Lower surface: 184C.

Stamens.—Number (per flower): 19-20. Filament
length: 10.0 mm.

Anthers.—Average number per flower: 20. Shape: Oval
to oblong. Length: 2.0 mm. Color: Light yellow.

Pollen.—Color: Yellow to ochre.

Pistils.—Average number per flower: 5. Color: 62D.
Length: 15.0 mm.

Style.—Length: 13.0 mm. Color: 62D.

Stigma.—Shape: Round. Color: 150C.

Fruit:

Date of picking.—Middle of September.

Average weight per fruit.—160 g.

Average number of fruits per cluster.—3.

Size.—Axial diameter: 56.0-60.0 mm. Transverse
diameter: 67.0-70.0 mm.

Form.—Roundish; oblong at top and bottom.

Cavity.—Regular in shape and shallow. Depth: 6.0-7.0
mm. Width: 18.0-20.0 mm.

Basin.—Ribbed; shallow-medium depth (9 mm);
medium width (20 mm).

Calyx.—Closed.

Skin:

Thickness.—Medium.

Texture.—Smooth.

Color.—185A.

Ground color.—181B.

Flesh:

Color.—47A.

Texture.—Firm and crisp.

Eating quality.—Very good; crisp acidity; aromatic;
juicy; Brix measurement of 13.5-14.

Core:

Bundle area.—White; clasping.

Calyx tube.—Funnel-shaped; 5.0 mm from tube to
shoulder.

Styles.—Closed.

Stamens.—Basal; inferior ovary.

Seed cells.—Average number per fruit: 5. Depth: 12.0
mm. Breadth: 6.0-7.0 mm.

Seeds:

Number perfect.—8.

Number in one cell.—1-2.

Length.—11.0 mm.

Breadth.—6.0-7.0 mm.

Form.—Oblong and pointed.

Color.—200B.

Stem:

Length.—20.0-22.0 mm.

Width.—2.0-2.5 mm.

Color.—183A.

Use: Table or dessert fruit.

Shipping quality: No bruising with normal handling.

Keeping quality: Approximately 3 months in a normal, cool
storage area, but very sensitive to storage temperatures
below 4-5° C.

Tree winter hardiness: Hardy to -18° C.

Bud winter hardiness: Hardy to -18° C.

Drought tolerance: Average.

Disease resistance: Resistant to scab.

I claim:

1. A new and distinct variety of *Malus domestica* tree
substantially as shown and described.

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Fig. 1



Fig. 2

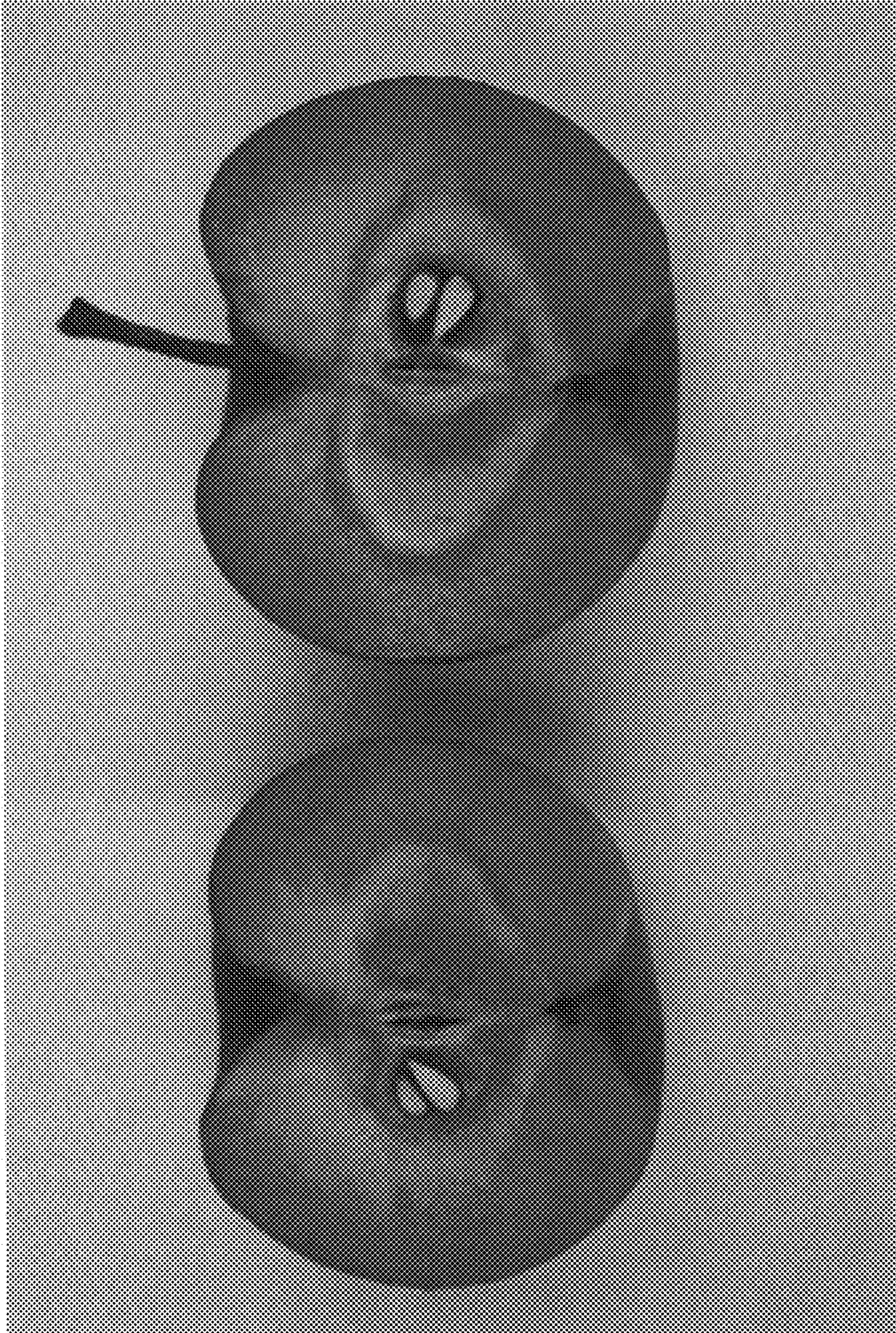


Fig. 3



Fig. 4

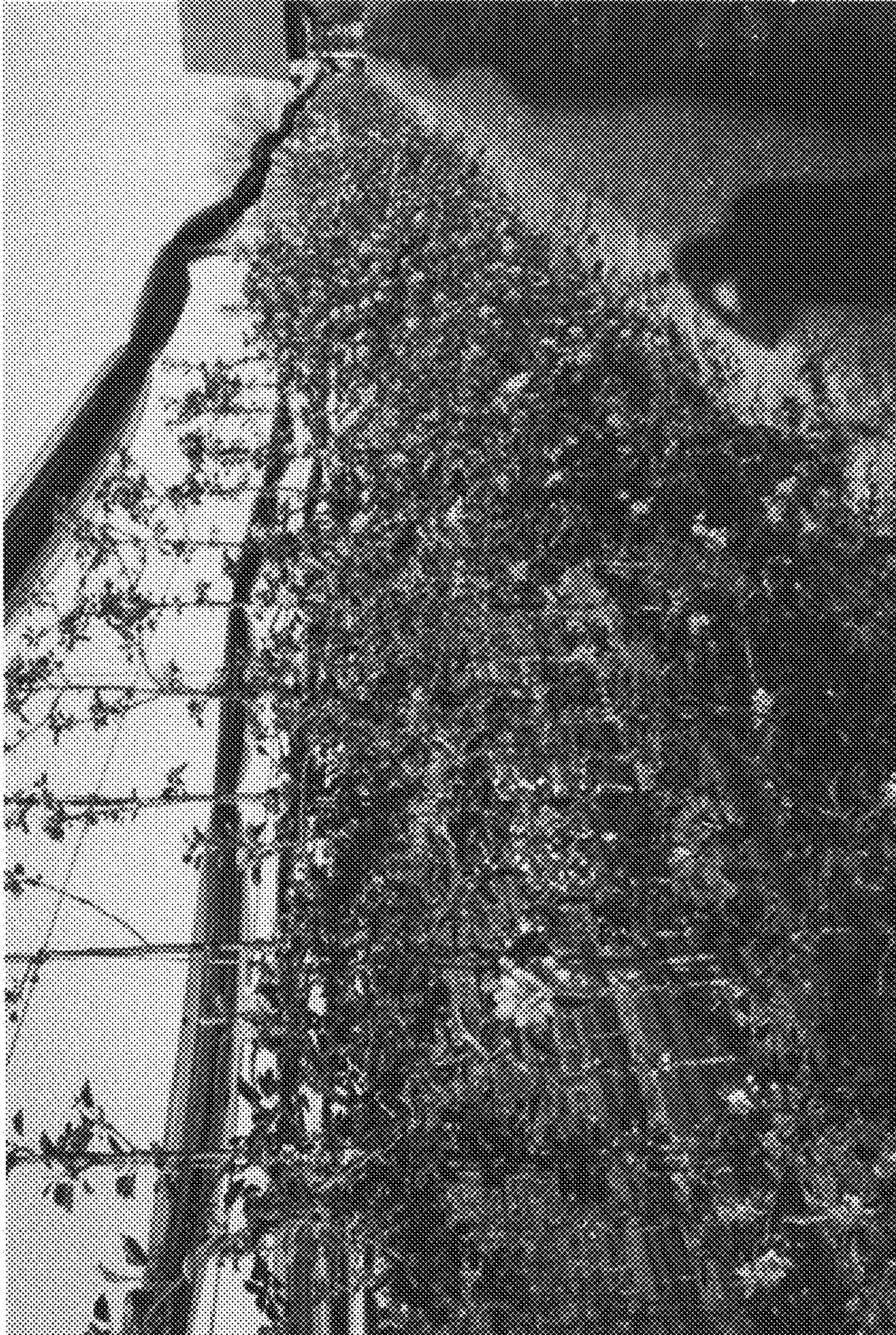


Fig. 5



Fig. 6

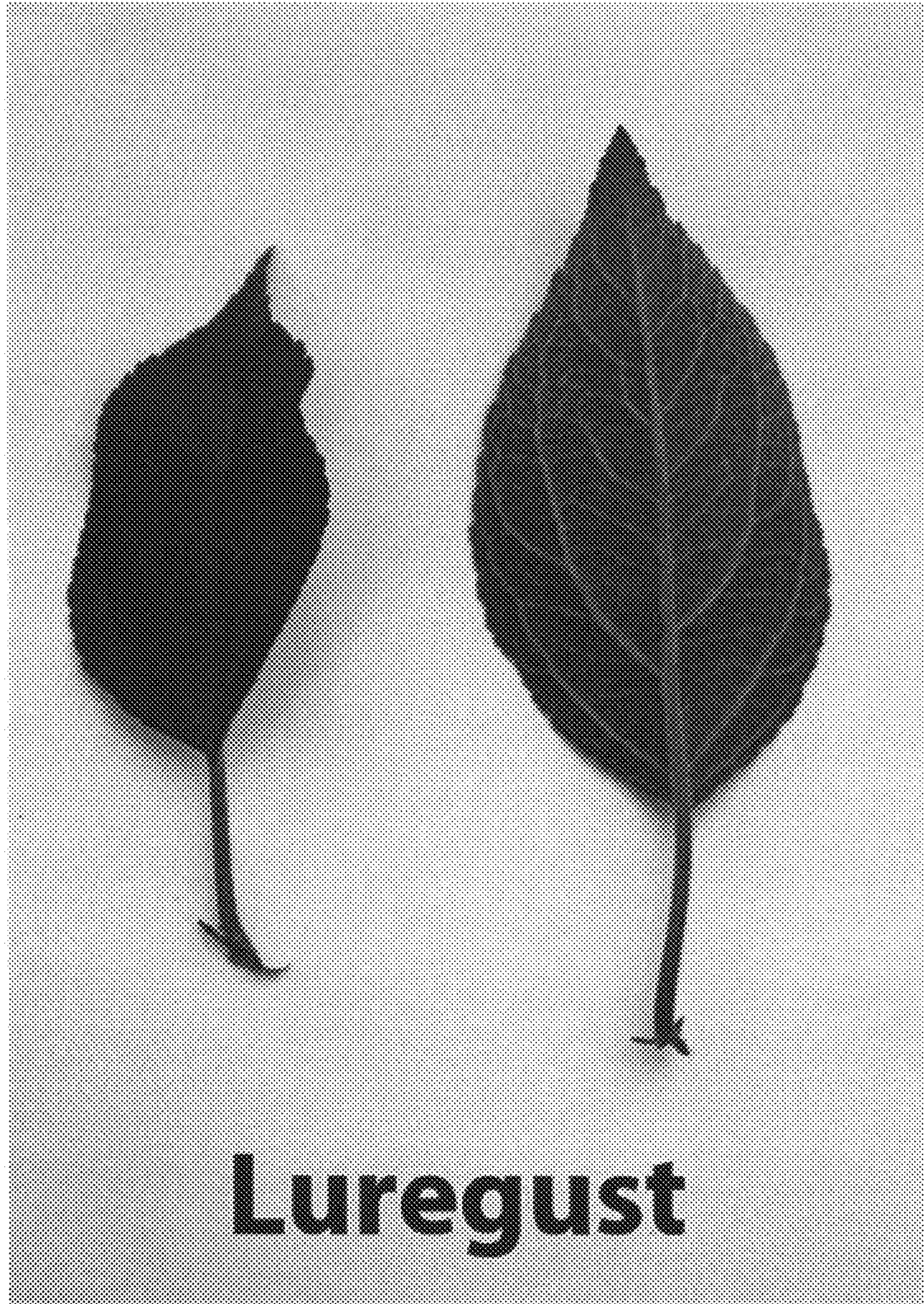


Fig. 7

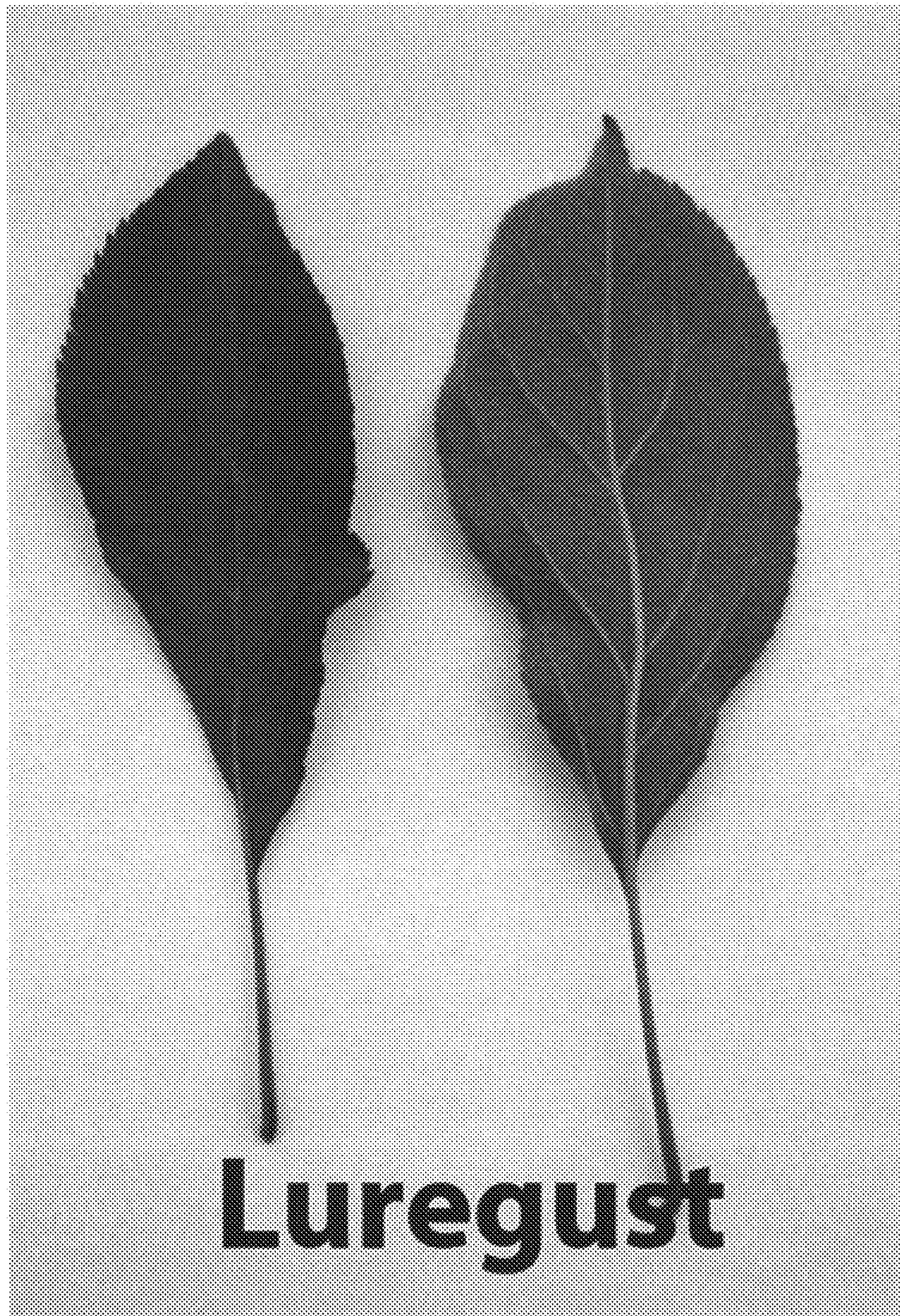


Fig. 8