



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

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(54) **IMPATIENS PLANT NAMED ‘DANMU82’**
(50) Latin Name: *Impatiens walleriana*
Varietal Denomination: **DANMU82**
(75) Inventor: **Gavriel Danziger**, Moshav Mishmar
Hashiva (IL)
(73) Assignee: **Danziger ‘DAN’ Flower Form**
(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.
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(52) **U.S. Cl.** **Plt./317**
(58) **Field of Classification Search** **Plt./317**
See application file for complete search history.

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(57) **ABSTRACT**
A new and distinct *Impatiens* cultivar named ‘DANMU82’ is disclosed, characterized by a compact, upright and mounding plant habit. Plants produce unique bi color pink and red, fully double flowers held just above the foliage. Plants flower and branch freely. The new variety is an *Impatiens*, normally produced as an outdoor garden or container plant.

2 Drawing Sheets

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Latin name of the genus and species: *Impatiens walleriana*.
Variety denomination: ‘DANMU82’.

BACKGROUND OF THE INVENTION

The new *Impatiens* cultivar is a product of a planned breeding program conducted by the inventor, Gavriel Danziger, in Moshav Mishmar Hashiva, Israel. The objective of the breeding program was to produce new *Impatiens* varieties for ornamental commercial applications. The cross resulting in this new variety was made during November 2008.

A single, unpatented, proprietary seedling variety referred to as *Impatiens walleriana* ‘3031HF’ was self pollinated, resulting in a group of seedlings from which ‘DANMU82’ was selected. The new variety was discovered in April 2009 by the inventor in a group of seedlings resulting from the 2008 crossing, in a research greenhouse in Moshav Mishmar Hashiva, Israel.

Asexual reproduction of the new cultivar ‘DANMU82’ by vegetative cuttings was first performed at a research greenhouse in Moshav Mishmar Hashiva, Israel in April 2009 and has shown that the unique features of this cultivar are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

The cultivar ‘DANMU82’ 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, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of ‘DANMU82’ These characteristics in combination distinguish ‘DANMU82’ as a new and distinct *Impatiens* cultivar:

1. Compact, upright and mounding growth habit
2. Unique bi color pink and red, fully double flowers held just above foliage
3. Free branching
4. Free flowering
5. Dark green foliage

Plants of the new cultivar ‘DANMU82’ are similar to plants of the parent, *Impatiens walleriana* ‘3031HF’ in most horticultural characteristics, however, plants of the new cultivar

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‘DANMU82’ produce flowers that are fully double, whereas the seed parent produces semi double flowers with less petals. Additionally, the new variety has bi colored colored flowers whereas the parent variety has red flowers.

COMMERCIAL COMPARISON

Plants of the new cultivar ‘DANMU82’ are comparable to the variety *Impatiens* ‘Musica Bi-Color Dark Red’, unpatented. The two *Impatiens* varieties are similar in most horticultural characteristics however, the new variety ‘DANMU82’ differs in having larger, lighter colored flowers. Additionally, plants of ‘DANMU82’ are less vigorous than the comparator.

Plants of the new cultivar ‘DANMU82’ are comparable to the variety *Impatiens* ‘DANMU18’ unpatented. The two *Impatiens* varieties are similar in most horticultural characteristics however, the new variety ‘DANMU82’ differs in producing smaller leaves. Additionally ‘DANMU82’ produces flowers with a different bi-color pattern.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photograph in FIG. 1 illustrates in full color a typical plant of ‘DANMU82’ grown in a greenhouse, in a 12 cm pot. Age of the plant photographed is approximately 8 weeks from a rooted cutting.

FIG. 2 illustrates in full color a close up of a typical bloom of ‘DANMU82’. The photographs were taken using conventional techniques and although colors may appear different from actual colors due to light reflectance it is as accurate as possible by conventional photographic techniques.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Colour Chart 2001 except where general terms of ordinary dictionary significance are used. The following observations and measurements describe ‘DANMU82’ plants grown in a greenhouse during Winter in Moshav Mishmar Hashiva, Israel. The growing temperature ranged from 23° C. to 28° C. during the day and from 18° C. to 22° C. during the night. General light conditions are bright,

normal sunlight. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Impatiens walleriana* 'DANMU82'.

PROPAGATION

Time to initiate roots:

Summer.—7 to 10 days at approximately 25° C.

Winter.—10 to 15 days at approximately 21° C.

Root description: Fibrous.

PLANT

Growth habit: Compact, upright and mounded.

Pot size of plant described: 12 cm.

Height: 15 cm.

Plant spread: 30 cm.

Growth rate: Fast.

Branching characteristics: Basal-branching.

Length of primary lateral branches: 13 cm.

Quantity of primary lateral branches: 10 to 12.

Characteristics of primary lateral branches:

Form.—Rounded.

Diameter.—0.8 cm.

Color.—Near RHS Greyed-Green 194B.

Texture.—Smooth.

Strength.—Strong, very stable.

Internode length: About 3 cm.

FOLIAGE

Leaf:

Arrangement.—Alternate.

Quantity.—Approximately 12 per branch.

Average length.—4.0 cm.

Average width.—3.0 cm.

Shape of blade.—Ovate.

Apex.—Acute.

Base.—Acute.

Margin.—Serrulate.

Texture of top surface.—Smooth.

Pubescence.—Absent.

Aspect.—About 45°.

Color.—Green. Young foliage upper side: RHS Green 137 B. Young foliage under side: RHS Green 138B. Mature foliage upper side: RHS Green 137A. Mature foliage under side: RHS Green 138 B. Venation: Mid-rib with secondary veins on the lower surface with no prominent veins on the upper surface. Type: Pinnate. Venation color upper side: RHS Green 137 C. Venation color under side: RHS Green 138B.

Petiole.—Length: About 1.5 to 2.0 cm. Diameter: About 0.1 cm. Color: Near RHS Green 138C. Texture: Smooth.

FLOWER

Natural flowering season: Spring until fall under outdoor conditions.

Days to flowering from rooted cutting: 6 weeks.

Inflorescence and flower type and habit: Fully double flowers.

Rate of flower opening: 6 to 8 days from bud to fully opened flower.

Flower longevity on plant: 8 days.

Persistent or self-cleaning: Not persistent.

Bud:

Shape.—Rounded.

Length.—About 1 cm.

Diameter.—About 0.8 cm.

Color.—Near RHS Yellow-Green 144D.

Flower size:

Diameter.—About 4 cm.

Depth.—About 1.5 cm.

Petals:

Quantity.—About 25 to 30 Petals.

Arrangement.—Imbricate.

Length.—About 2.0 cm.

Width.—About 2 cm.

Shape.—Obovate.

Apex.—Retuse.

Base.—Acute.

Margin.—Entire.

Texture, upper and lower surfaces.—Smooth.

Color.—When opening, upper surface: Near RHS White N155B and Red 45B. When opening, lower surface: Near RHS White N155B and Red 45B. Fully opened, upper surface: Near RHS White N155B and Red 45B. Fully opened, lower surface: Near RHS White N155B and Red 45B.

Spurs:

Quantity per flower.—1.

Length.—3 cm.

Diameter.—0.1 cm.

Aspect.—Spur curvature 40° to 45° from peduncle.

Color.—Towards base: Near RHS Yellow-Green 145 C.

Apex: Near RHS Yellow-Green 145A.

Sepals:

Quantity.—4.

Length.—Two large sepals, length about 1 cm. Two small sepals, length 0.2 cm.

Width.—Large sepals: About 1 cm. Small sepals: about 0.2 cm.

Shape (overall).—Large sepals: Oblong. Small sepals: aricular. Apex: Acute. Base: Large sepals: rounded. Small sepals: acuminate.

Margin.—Entire.

Color.—Large sepals: near RHS Yellow-Green 145C. Small sepals: near RHS Green 143C.

Peduncles:

Length.—About 2.5 cm.

Diameter.—0.1 cm.

Angle.—About 45° to the lateral branch.

Strength.—Stable, flexible.

Texture.—Smooth.

Color.—Near RHS Yellow-Green 148C.

Fragrance: None.

REPRODUCTIVE ORGANS

50 Sterile, no reproductive organs.

OTHER CHARACTERISTICS

Seeds and fruits: Not observed, sterile flowers.

55 Disease/pest resistance: Neither resistance nor susceptibility to pathogens and pests common to *Impatiens* have been observed.

Temperature tolerance: The new variety tolerates low temperatures to 10° C., maximum temperature tolerance unknown.

60 What is claimed is:

1. A new and distinct cultivar of *Impatiens* plant named 'DANMU82' as herein illustrated and described.

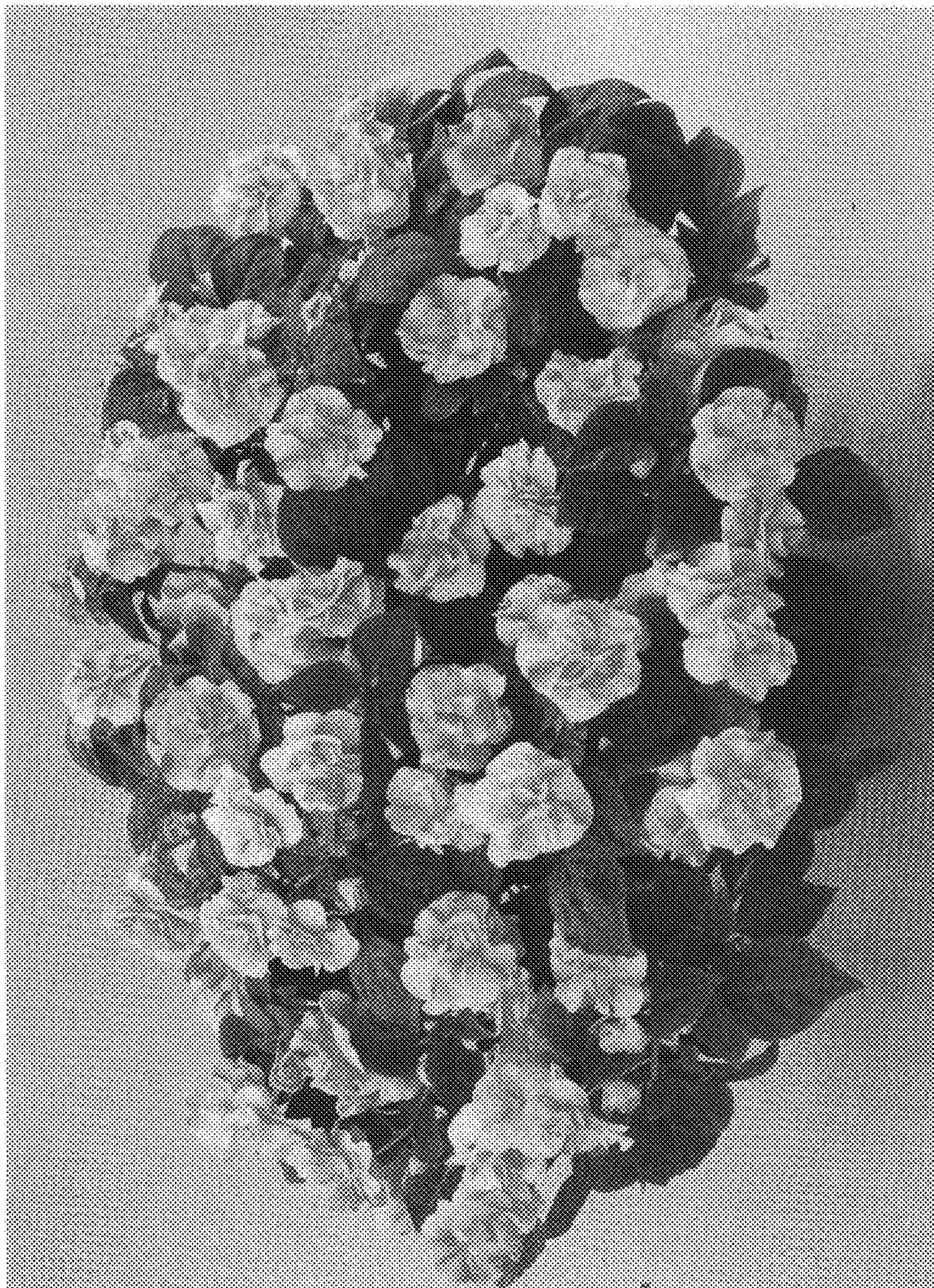


Fig. 1

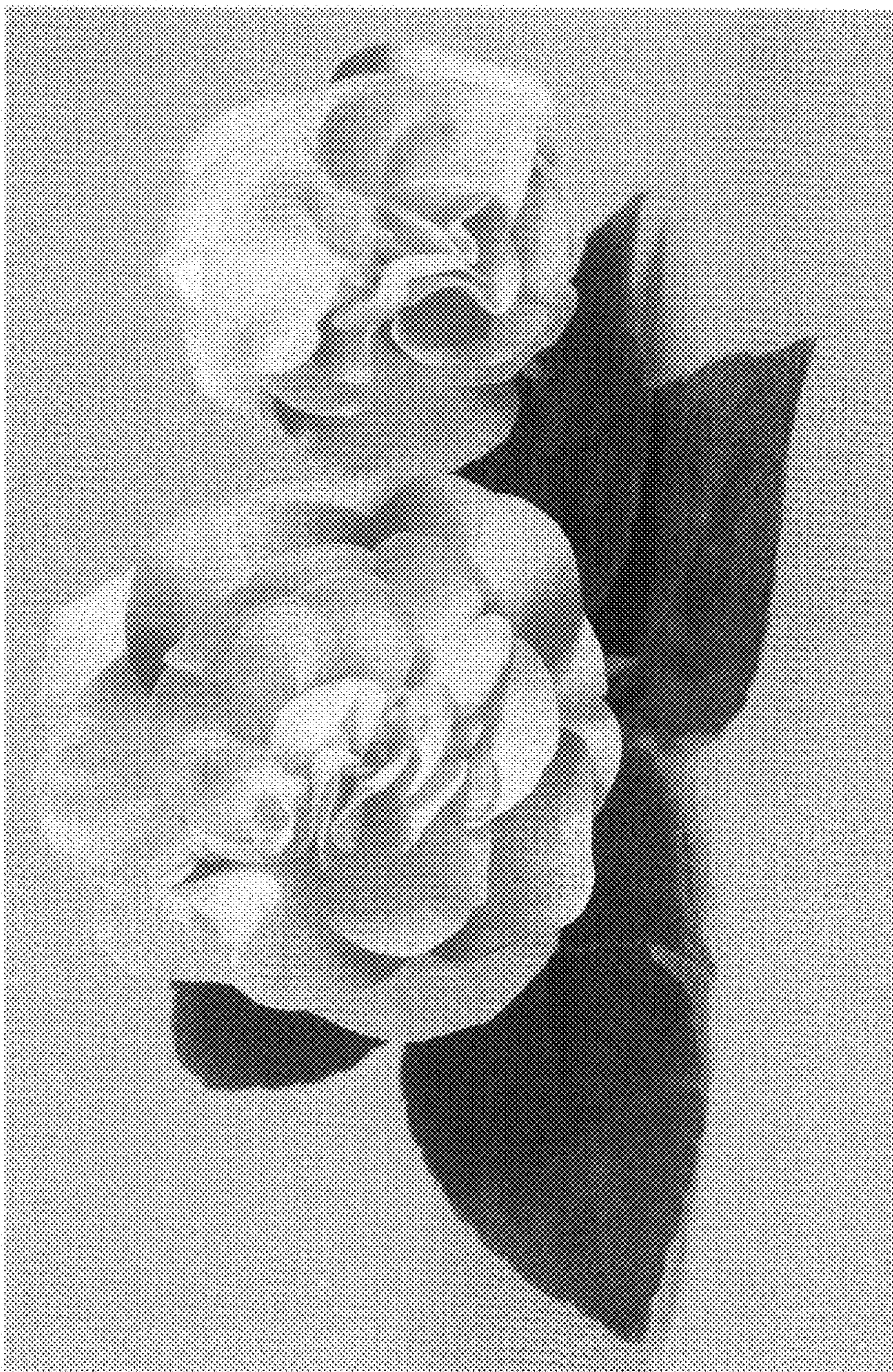


Fig. 2