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

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(54) **IMPATIENS PLANT NAMED 'DHAR318'**

(50) Latin Name: *Impatiens hawkeri*×*flaccida*  
Varietal Denomination: **DHAR318**

(75) Inventor: **Gavriel Danziger**, Moshav Mishmar Hashiva (IL)

(73) Assignee: **Danziger 'DAN' Flower Farm** (IL)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 396 days.

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(52) **U.S. Cl.**  
USPC ..... **Plt./317**

(58) **Field of Classification Search**  
USPC ..... Plt./317, 318.3  
See application file for complete search history.

*Primary Examiner* — Kent L Bell

(74) *Attorney, Agent, or Firm* — Cassandra Bright

(57) **ABSTRACT**

A new and distinct *Impatiens* cultivar named 'DHAR318' is disclosed, characterized by distinctive large salmon flowers, good branching and sun resistance. The new variety is an *Impatiens* normally produced as an outdoor ornamental plant for containers or gardens.

**2 Drawing Sheets**

**1**

Latin name of the genus and species: *Impatiens hawkeri*×*flaccida*.

Variety denomination: 'DHAR318'.

**BACKGROUND OF THE INVENTION**

The new *Impatiens* cultivar is a product of chance discovery. The variety originated as a naturally occurring whole plant mutation of the variety *Impatiens hawkeri*×*flaccida* 'DHAR319', U.S. Plant Pat. No. 23,943.

The new variety was discovered by the inventor, Gavriel Danziger, a citizen of Israel, during March of 2009 in a research greenhouse in Moshav Mishmar Hashiva, Israel. After identifying the new variety as a potentially interesting selection, the inventor continued confidential testing and propagation of 'DHAR318', assessing stability of the unique characteristics of this variety.

Asexual reproduction of the new cultivar 'DHAR318' by leaf cuttings was first performed at a research greenhouse in Moshav Mishmar Hashiva, Israel in March of 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 'DHAR318' 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 'DHAR318'. These characteristics in combination distinguish 'DHAR318' as a new and distinct *Impatiens* cultivar:

1. Large flowers.
2. Salmon flower color.
3. Good branching.
4. Sun resistance.

Plants of the new cultivar 'DHAR318' are similar to plants of the parent, *Impatiens* 'DHAR319', filed concurrently, in

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most horticultural characteristics, however, plants of the new cultivar 'DHAR318' produce salmon colored flowers, whereas 'DHAR319' produces purple colored flowers.

**COMMERCIAL COMPARISON**

Plants of the new cultivar 'DHAR318' are comparable to the variety *Impatiens* 'SAKIMP008', U.S. Plant Pat. No. 21,014. The two *Impatiens* varieties are similar in most horticultural characteristics however, the new variety 'DHAR318' differs in having darker colored flowers, and a more vigorous growth habit. Additionally, the new variety has larger flowers than 'SAKIMP008'.

Plants of the new cultivar 'DHAR318' can also be compared to the commercial variety *Impatiens* 'SAKIMP016', U.S. Plant Pat. No. 21,753. These varieties are similar in most horticultural characteristics, however 'DHAR318' has a more vigorous growth habit and larger flower size. Also 'DHAR318' has a darker colored flower than that of 'SAKIMP016'.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying photograph in FIG. 1 illustrates in full color a typical plant of 'DHAR318' grown in a greenhouse, in a 16 cm pot. Age of the plant photographed is approximately 14 weeks from a rooted cutting.

FIG. 2 illustrates in full color a close up of a typical bloom of 'DHAR318'.

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 2005, except where general terms of ordinary dictionary significance are used. The following observations and measurements describe

'DHAR318' plants grown in a greenhouse during Winter and Spring in Moshav Mishmar Hashiva, Israel. The growing temperature ranged from 20° C. to 35° C. during the day and from 15° C. to 25° C. during the night. General light conditions are bright, normal sunlight. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Impatiens hawkeri* × *flaccida* 'DHAR318'.

#### PROPAGATION

Time to initiate roots: Summer: 10 to 12 days at approximately 25° C. Winter: 14 to 20 days at approximately 18° C.

Root description: Fibrous adventitious roots.

#### PLANT

Growth habit: Mounded.

Pot size of plant described: 16 cm.

Age of plant described: Approximately 14 weeks from rooted cutting.

Height: 28 cm.

Plant spread: 50 cm.

Growth rate: Vigorous.

Branching characteristics: Highly branched.

Length of primary lateral branches: 25 cm.

Quantity of primary lateral branches: 6-8.

Characteristics of primary lateral branches:

*Form.*—Oval shape.

*Diameter.*—1 cm.

*Color.*—Yellow Green group 148 C RHS.

*Texture.*—Smooth.

*Strength.*—Strong.

Internode length: 6 cm.

#### FOLIAGE

Leaf:

*Arrangement.*—Alternate.

*Quantity.*—Approximately 20-25 per branch.

*Average length.*—7.5 cm.

*Average width.*—3 cm.

*Shape of blade.*—Lanceolate to ovate.

*Apex.*—Attenuate.

*Base.*—Acuminate.

*Margin.*—Ciliate.

*Texture of top surface.*—Smooth.

*Pubescence.*—None.

*Aspect.*—45 degrees.

*Color.*—Young foliage upper side: Green Group 137 A RHS. Young foliage under side: Green Group 138 B RHS. Mature foliage upper side: Yellow Green Group 147 A RHS. Mature foliage under side: Yellow Green Group 148 C RHS.

*Venation.*—Midrib with secondary veins. Pinnate, only lower surface. Type: Pinnate. Venation color upper side: Yellow Green Group 145 C RHS. Venation color under side: Greyed Red Group 182 B RHS.

*Petiole.*—Length: 0.8 cm. Diameter: 0.2 cm. Color: Red Group 51 D RHS. Texture: Smooth.

#### FLOWER

Natural flowering season: Flowers at any day length. All year round in a greenhouse environment. Flowering is continuous from spring to fall in an outdoor garden.

Days to flowering from rooted cutting: 10 weeks.

Inflorescence and flower type and habit: Single flowers raised above the foliage. The corolla consists of five petals.

Rate of flower opening: 10 to 15 days from bud to fully opened flower.

Flower longevity on plant: 5-8 Days.

Persistent or self-cleaning.—Self cleaning.

Bud:

*Shape.*—Ovate.

*Length.*—2 cm.

*Diameter.*—1 cm.

*Color.*—Red Group 43 B RHS.

Flower size:

*Diameter.*—8 cm.

Petals:

*Quantity.*—5.

*Arrangement.*—Rotate overlapping.

*Length.*—4 cm.

*Width.*—4.5 cm.

*Shape.*—Obovate.

*Apex.*—Heart Shape.

*Base.*—Acute.

*Margin.*—Entire.

*Texture, upper and lower surfaces.*—Smooth.

*Color.*—Salmon. When opening, upper surface: Red Group 43 B RHS. When opening, lower surface: Red Group 41B RHS. Fully opened, upper surface: Red Group 43 B RHS. Fully opened, lower surface: Red Group 41B RHS.

Spurs:

*Quantity per flower.*—1.

*Length.*—6.5 cm.

*Diameter.*—0.1 cm.

*Aspect.*—Spur curvature 40°-45° from peduncle.

*Color.*—Towards base: Red Group 51A RHS. Apex: Yellow Green Group 149 D RHS.

Sepals:

*Quantity.*—2.

*Length.*—2 cm.

*Width.*—1 cm.

*Shape (overall).*—Oblong. Apex: Acute. Base: Rounded.

*Margin.*—Entire.

*Color.*—Yellow Green group 146 D RHS.

Peduncles:

*Length.*—6 cm.

*Diameter.*—0.2 cm.

*Angle.*—About 45° to the lateral branch.

*Strength.*—Stable, flexible.

*Texture.*—Smooth.

*Color.*—Yellow Green Group 144 C RHS.

Fragrance: None.

REPRODUCTIVE ORGANS

Stamens: There are five stamens with introrse anthers that are more or less fused and form a cap over the ovary.

Number.—5.

Anthers:

Shape.—Oblong.

Length.—Approximately 0.4 cm.

Color.—Red Purple Group 67 A RHS.

Pollen.—Color: White Group 155 D RHS. Quantity: Abundant.

Pistil:

Number.—1.

Length.—0.5 cm.

Style.—Length: 0.5 cm. Color: Yellow Green Group 143 A RHS.

Stigma.—Shape: Round. Color: White GROUP N 155B RHS. Ovary Color: Yellow-Green group, RHS 144D RHS.

OTHER CHARACTERISTICS

Seeds and fruits: Minute locule fruits produce 5-10 seeds per fruit.

Disease/pest resistance: Neither resistance nor susceptibility has been observed.

Temperature tolerance: Grows best at a range between 10° C.-30° C. Will tolerate moderate temperatures outside of this range.

What is claimed is:

1. A new and distinct cultivar of *Impatiens* plant named 'DHAR318' as herein illustrated and described.

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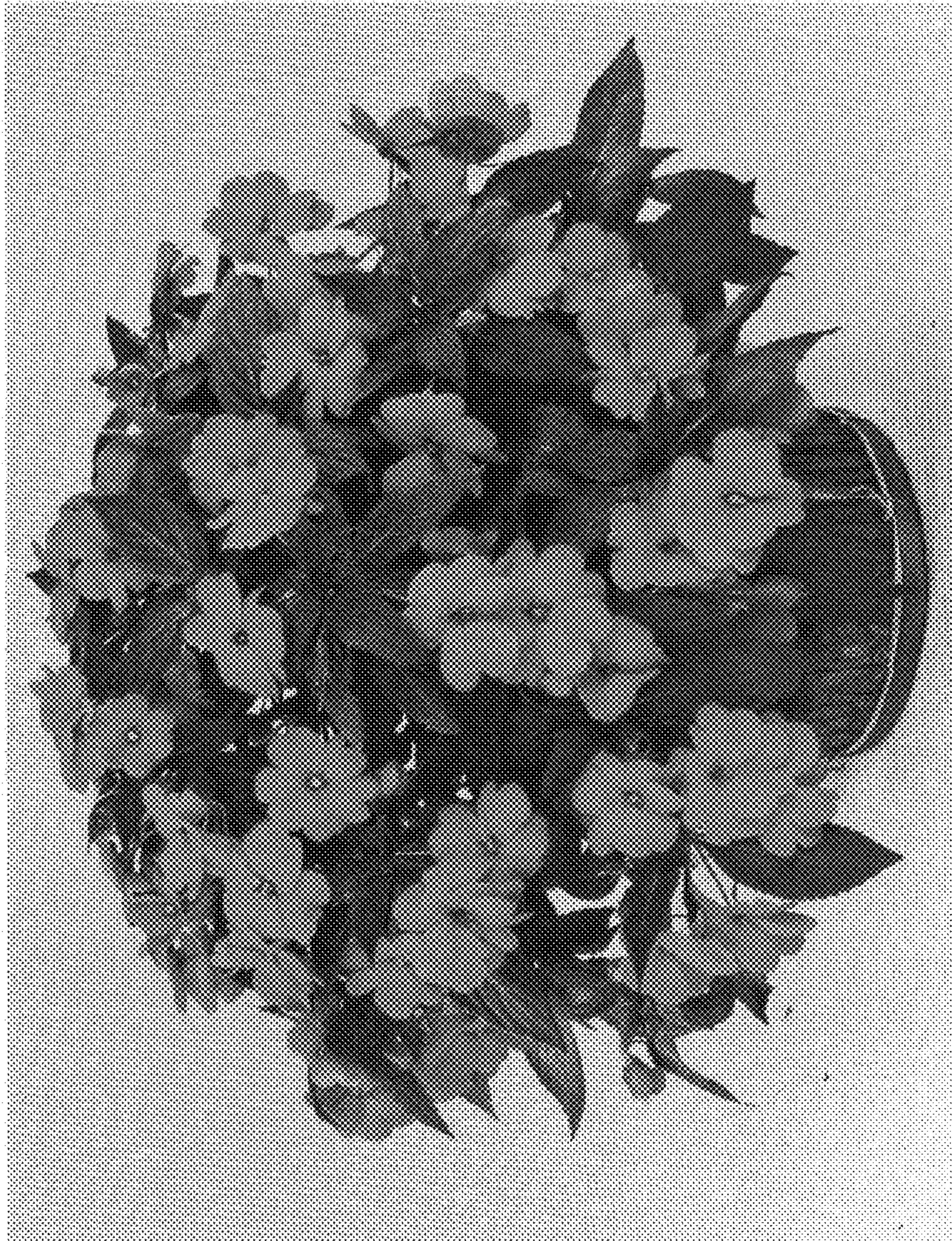


Fig. 1

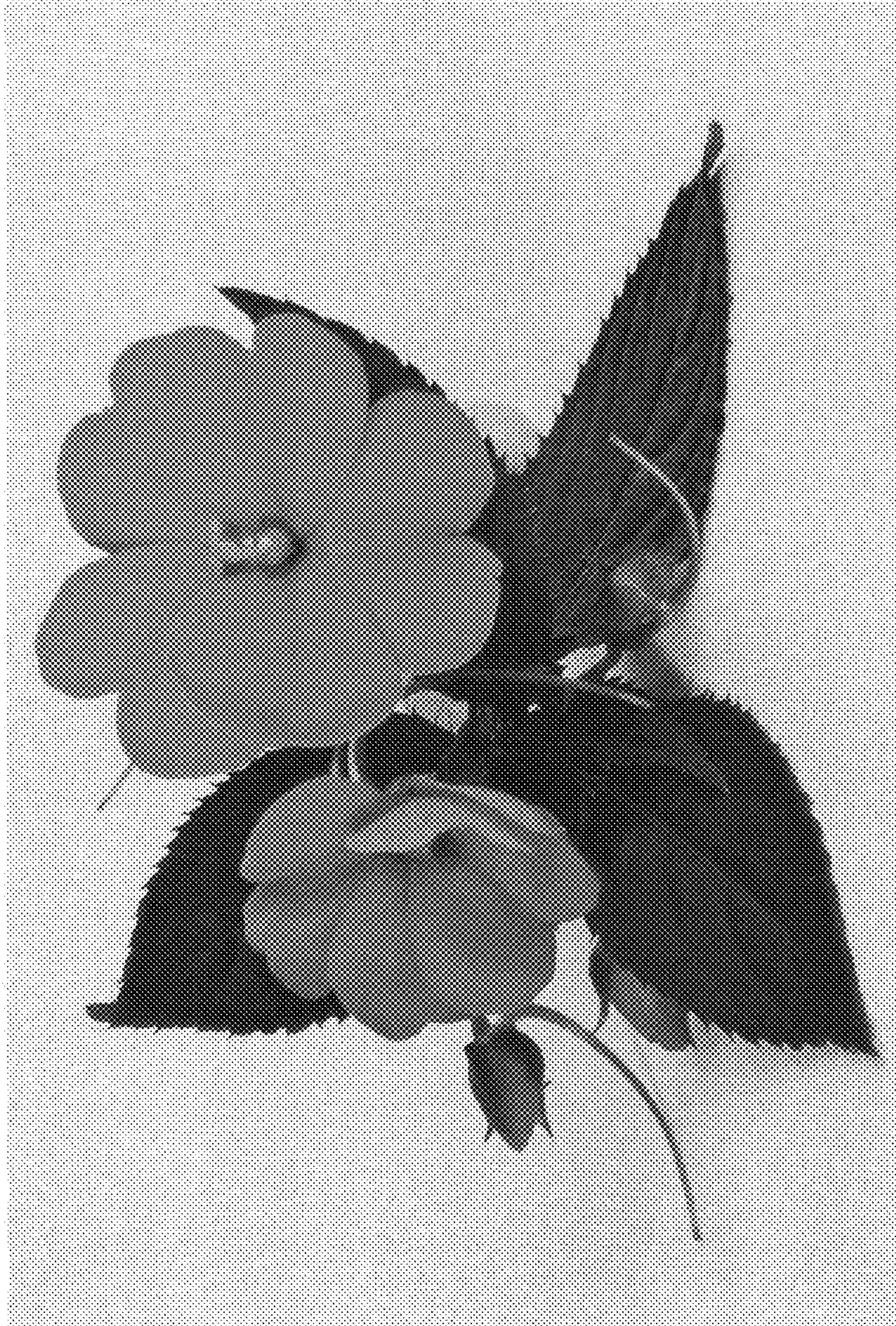


FIG. 2