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(12) United States Plant Patent
Boeder**(10) Patent No.: US PP15,550 P2**
(45) Date of Patent: Feb. 8, 2005**(54) CHRYSANTHEMUM PLANT NAMED**
'SIZZLENESS GREEN'**(50) Latin Name: *Chrysanthemum morifolium***
Varietal Denomination: Sizzleness Green**(75) Inventor: Mark Roland Boeder, The Hague**
(NL)**(73) Assignee: Chrysanthemum Breeders**
Association, N.V. (NL)**(*) Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 7 days.**(21) Appl. No.: 10/841,484****(22) Filed: May 10, 2004****(51) Int. Cl.⁷ A01H 5/00****(52) U.S. Cl. Plt./287****(58) Field of Search Plt./287***Primary Examiner*—Anne Marie Grunberg*Assistant Examiner*—Annette H Para**(74) Attorney, Agent, or Firm**—Parkhurst & Wendel, L.L.P.**(57) ABSTRACT**

A *Chrysanthemum* plant named 'Sizzleness Green' characterized by its medium size decorative inflorescences with elongated quilled green ray-florets, with a response time of 52 days.

3 Drawing Sheets**1****RELATED CULTIVARS**

'Sizzleness Green' is related to 'Sizzleness Pink' (copending U.S. Plant patent application No. 10/841,485 and 'Sizzleness Yellow' (copending U.S. Plant patent application No. 10/841,472), which are all color sports of the original 'Sizzleness' (U.S. Plant patent application No. 10/782,856).

BACKGROUND OF THE INVENTION

'Sizzleness Green' is a product of a breeding and selection program which had the objective of finding color mutants of 'Sizzleness'. The new plant of the present invention comprises a new and distinct cultivar of *chrysanthemum* plant that is a natural occurring sport of a parent *chrysanthemum* named 'Sizzleness'. A comparison with Parent *chrysanthemum* 'Sizzleness' is also made in this application. The new cultivar was discovered as a whole plant mutation in 2002 by Mark Roland Boeder in a controlled environment (greenhouse) in Rijnsenhout Holland. The first act of asexual reproduction of 'Sizzleness Green' was accomplished when vegetative cuttings were taken from the initial selection in 2002 in Rijnsenhout Holland.

SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of *chrysanthemum* bearing medium sized blooms with light green ray-florets and green disc florets.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of *chrysanthemum* is shown in the accompanying drawings, the color being as nearly true as possible with color photographs of this type.

FIG. 1 shows a plant of the cultivar in full bloom.

FIG. 2 shows the various stages of bloom of the new cultivar.

FIG. 3 shows the foliage of the new cultivar.

2**DESCRIPTION OF THE INVENTION**

This new variety of *chrysanthemum* is of the botanical classification *Chrysanthemum morifolium*. L. The observations and measurements were gathered from plants grown in April/May in a greenhouse in Rijnsenhout Holland in a photo-periodic controlled crop under conditions generally used in commercial practice. The greenhouse temperatures during this crop were at day-time between 18° C. and 25° C. and at night 20° C. After a long day period of 14 days the photo-periodic response time in this crop was 52 days. After the long day period to flowering growth retardants were applied 2 to 3 times in an average dose of 2.5 gram/liter water. No tests were done on disease or insect resistance or susceptibility. No tests were done on cold or drought resistance. This new variety produces medium sized blooms with green ray-florets and blooming on the plant for 5 weeks. This new variety of *chrysanthemum* has been found to retain its distinctive characteristics throughout successive propagations however the phenotype may vary significantly with variations in environment such as light intensity and temperature. To show the phenotype as described 'Sizzleness Green' can be planted without assimilation lightning (high pressure sodium lamps) between week 1 and week 35 under greenhouse conditions in Holland. With assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland.

From the cultivars known to inventor the most similar existing cultivars in comparison to 'Sizzleness Green' is the parent 'Sizzleness', and 'Sizzleness Yellow' (copending U.S. Plant Patent application). When 'Sizzleness Green', 'Sizzleness Yellow' and 'Sizzleness' are being compared the following differences and similarities are noticed: The difference of 'Sizzleness', and its sports 'Sizzleness Yellow' and 'Sizzleness Green' is (1) Color ray florets. The color is for 'Sizzleness' purple and cream, while it is yellow for 'Sizzleness Yellow' and green for 'Sizzleness Green'. For which characteristics 'Sizzleness Green' has been selected out of 'Sizzleness'. All other characteristics of 'Sizzleness' and 'Sizzleness Green' are similar.

The following is a description of the plant and characteristics that distinguish 'Sizzleness Green' as a new and distinct variety. The color designations are taken from the

plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society Colour Chart, edition 1995.

TABLE 1

Botanical Description of cultivar 'Sizzleness Green'	
<u>Bud</u>	
Size	Medium, cross-section 0.6 cm, height 0.6 cm
Outside color	Yellow-green 145C
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 138B
<u>Inflorescence</u>	
Type	Decorative
Height	3 cm
Size	Medium
Fully Expanded	6 cm
Peduncle length	Near the top 7 cm, near the middle 10 cm, near the bottom 14 cm.
Peduncle color	Green 138B
Number of inflorescences per stem	Average of 18–20
Performance on the plant	5 weeks
Seeds (if crossed)	Produced in small quantities, oval shaped, grey-brown 199A, 2 mm in length.
<u>Fragrance</u>	
Color	Typical <i>chrysanthemum</i>
<u>Center of the flower</u>	
	Immature Yellow-green 149A
	Mature Yellow-green 154C
Color of upper surface of the ray-florets	Upper surface Yellow-green 145C
	Lower surface Yellow-green 145C
Tonality from Distance	A spray mum with green flowers and a green disc
Color of the upper surface of the ray florets after aging of the plant	Yellow-green 145C
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	100
Shape	Elongated quilled
Longitudinal axis of majority	Straight
Length of corolla tube	Long; 2 cm
Ray-floret margin	Entire
Ray-floret length	3 cm
Ray-floret width	0.3 cm
Ratio length/width	High
Shape of tip	Rounded
<u>Disc florets</u>	
Disc diameter	0.8 cm
Distribution of disc florets	Few, only visible in mature stage of flowering.
Shape	Tubular
Color	Yellow-green 154D
Receptacle shape	Domed raised
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	Thin
Stamen color	Yellow-green 144B
Pollen	Produced in small quantity
Pollen color	Yellow-orange 14A
Styles (present in both ray and disc florets)	Thick

TABLE 1-continued

Botanical Description of cultivar 'Sizzleness Green'	
Style color	Yellow-green 150C
Style Length	4 mm
Stigma color	Yellow-green 145D
Stigma Width	1 mm
Ovaries	Enclosed in perianth
<u>Plant</u>	
Form	A spray mum meant for erect culture
Growth habit	Upright
Growth rate	Medium vigor
Height	90 cm
Width	28 cm
Internode length	2–3.5 cm
Spray formation	Cylindrical
Stem Color	Yellow-green 148A
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Absent
Flowering Response(photo-periodic controlled crop, not natural season)	52 Days
<u>Foliage</u>	
Color immature stage	Upper side Green 137B Under side Green 138C
Color mature stage	Upper side Green 137A Under side Green 138A
Color midvein	Upper side Yellow-green 145C Under side Yellow-green 148C
Size	Medium; length 15–13 cm, width 7–5 cm
Quantity (number per single stem)	30
Shape	Elliptic
Texture upper side	Fleshy and glabrous
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Dentate
Shape of Base of Sinus Between Lateral Lobes	Diverging
Margin of Sinus Between Lateral Lobes	Rounded
Shape of Base	Obtuse
Apex	Mucronulate
Petiole length	2–3 cm
Petiole color	Yellow-green 145C

TABLE 2

Differences with the comparison Varieties			
Color ray florets	'Sizzleness Green'	'Sizzleness Yellow'	'Sizzleness'
Color ray florets	Yellow-green 145C	Greyed-red 182B and Yellow 10A at edges	Purple-violet 80C and Yellow 4D at edges

I claim:

1. A new and distinct variety of *chrysanthemum* plant as described and illustrated.

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FIG. 1

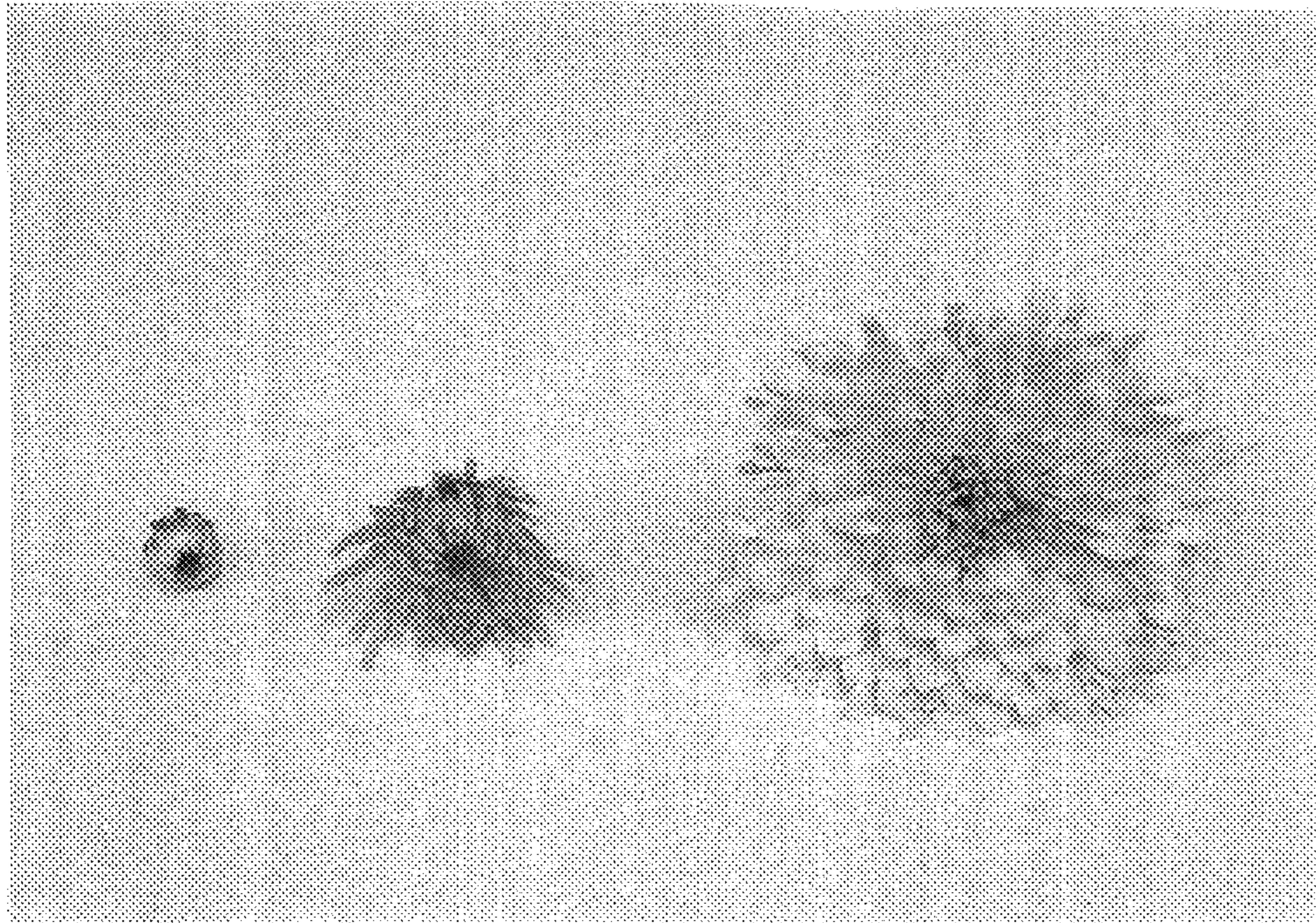


FIG. 2

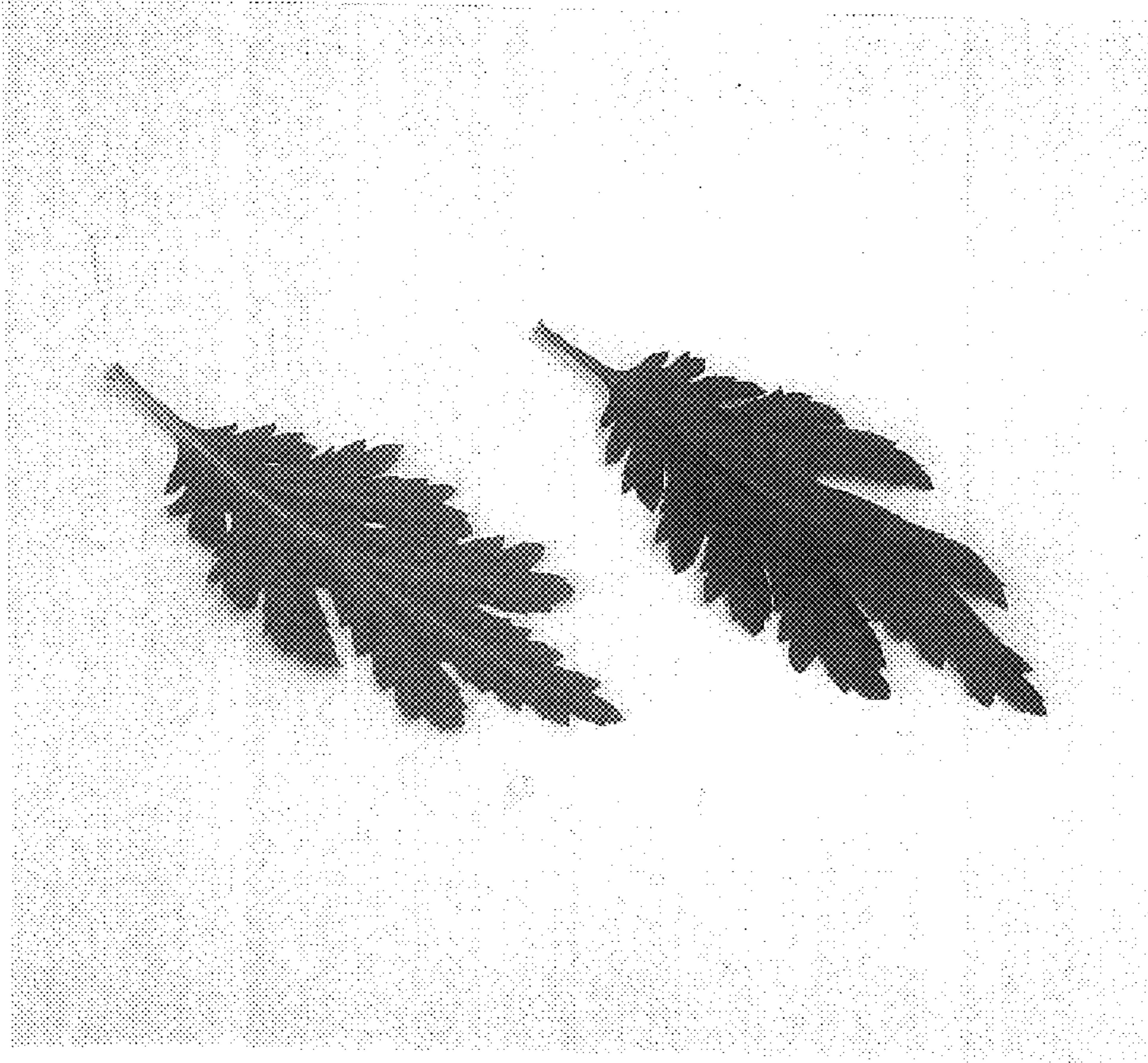


FIG. 3