



US00PP25227P3

(12) **United States Plant Patent**
Blom(10) **Patent No.:** US PP25,227 P3
(45) **Date of Patent:** Jan. 13, 2015

- (54) **CHrysanthemum PLANT NAMED
'ZANMUSTAWHI'**
- (50) Latin Name: *Chrysanthemum×morifolium* Ramat.
Varietal Denomination: **Zanmustawhi**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 184 days.
- (21) Appl. No.: **13/694,693**
- (22) Filed: **Dec. 26, 2012**

- (65) **Prior Publication Data**
US 2014/0182025 P1 Jun. 26, 2014
- (51) **Int. Cl.**
A01H 5/00 (2006.01)
- (52) **U.S. Cl.**
USPC **Plt./288**
- (58) **Field of Classification Search**
USPC Plt./288
See application file for complete search history.

Primary Examiner — Anne Grunberg*(74) Attorney, Agent, or Firm* — Steptoe & Johnson LLP**(57) ABSTRACT**

A *Chrysanthemum* plant named 'Zanmustawhi' characterized by its medium sized blooms with white ray florets and a cream center and prolific branching; natural season flowering date September 24 (week 39); blooming for a period of 5 weeks.

3 Drawing Sheets**1**

Botanical designation: *Chrysanthemum×morifolium* Ramat.

Cultivar denomination: 'Zanmustawhi'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Chrysanthemum* plant, botanically known as *Chrysanthemum×morifolium* Ramat., commercially known as a garden mum, and hereinafter referred to by the cultivar denomination 'Zanmustawhi'. 'Zanmustawhi' is a product of a breeding and selection program for outdoor pot mums (garden mums) which had the objective of creating new cultivars with a double type inflorescence, a natural season flowering date around September 24 (week 39), blooming for a period of 5 weeks. 'Zanmustawhi' is a seedling resulting from a cross of the female parent id 23633 with the male parent id 46175. Plants of the new cultivar 'Zanmustawhi' differ from plants of the female parent in the following characteristics. (1) Natural season flowering date. And (2) Inflorescence size. (1) Plants of the seedling flower earlier in the season than those of the female parent. (2) Inflorescences of the seedling are larger than those of the female parent. Plants of the new cultivar 'Zanmustawhi' differ from plants of the male parent in plant vigor; plants of the seedling are less vigorous than those of the male parent.

The new and distinct cultivar was discovered and selected as a flowering plant by Wilhelmus Bemardus Blom on a cultivated field in Rijsenhout, The Netherlands in 2007. The first act of asexual production of 'Zanmustawhi' was accomplished when vegetative cuttings from the initial selection in 2007 were propagated further in a controlled environment in Rijsenhout, The Netherlands. The new cultivar has been found to retain its distinctive characteristics through successive propagations.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of *Chrysanthemum* (of about 17 weeks) is shown in the accom-

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panying 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 various stages of foliage of the new cultivar.

DESCRIPTION OF THE INVENTION

10 The observations and measurements were gathered from plants grown out door in Rijsenhout, The Netherlands under natural day length and temperature and planted in week 23 in 2012. The natural blooming date of this crop was September 24 (week 39). The average height of the plants was 2.5 cm. No growth retardants were used. No tests were done on disease or insect resistance or susceptibility. No tests were done on cold or drought tolerance. This new variety produces medium sized blooms with white ray florets with a cream center blooming for a period of 5 weeks.

15 From the cultivars known to inventor the most similar existing cultivar in comparison to 'Zanmustawhi' are 'Zanmudove' (U.S. Plant Pat. No. 24,618) and 'Zanmuglow' (U.S. Plant Pat. No. 22,617). When 'Zanmustawhi', 'Zanmudove' and 'Zanmuglow' are being compared the following differences are noticed: (1) Inflorescence size. And (2) Natural 20 flowering date. (1) Inflorescences of 'Zanmudove' are larger than those of 'Zanmustawhi' and 'Zanmuglow'. (2) Plants of 'Zanmustawhi' and 'Zanmudove' flower later than those of 'Zanmuglow'.

25 The following is a description of the plant and characteristics that distinguish 'Zanmustawhi' as a new and distinct variety.

30 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 2001.

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TABLE 1

Botanical Description of <i>Chrysanthemum × morifolium</i> Ramat. ‘Zanmustawhi’	
Bud	
Size:	Small; cross-section 6 mm, height 6 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191A
Phyllaries	
Number:	18-20, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green 137A Lower side: Green 137A
Length and width:	6 mm; 1 mm
Texture:	Pubescent
Inflorescences	
Type:	Double
Height:	2.5 cm
Diameter:	5 cm
Peduncle length:	5-8 cm
Peduncle color:	Green 138A
Peduncle diameter:	1.5 mm
Peduncle texture:	Pubescent
Number per branch:	Approx. 6 inflorescences
Duration of flowering:	5 weeks
Seeds:	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.5 mm
Fragrance:	Faint <i>chrysanthemum</i> odor
Color inflorescences	
Center of inflorescence: Immature stage: White 155A; Mature stage: White 155D	
Color of upper side of ray florets: White 155D	
Color of lower side of ray florets: White 155D	
Tonality from distance: A garden mum with white blooms and a cream center	
Color of ray florets after aging of the plant: White 155D	
Ray florets	
Texture:	Upper and lower side smooth
Number:	150-170
Shape:	Elliptic
Apex:	Dentate
Base:	Attenuate
Cross-section:	Circular
Longitudinal axis:	Incurving to straight
Length of corolla tube:	5-20 mm
Ray floret margin:	Entire
Ray floret length:	1-2.5 cm
Ray floret width:	1-3 mm
Ratio length/width:	Medium
Disc florets	Absent
Receptacle	
Color:	Yellow-green 145D
Shape:	Domed raised
Height:	5 mm
Diameter:	4 mm

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TABLE 1-continued

Botanical Description of <i>Chrysanthemum × morifolium</i> Ramat. ‘Zanmustawhi’	
5 Reproductive Organs	
Androecium:	Absent
Pollen:	Absent
Gynoecium:	Present on ray florets
Style color:	Yellow-green 154C
10 Style length:	4 mm
Stigma color:	Yellow 7A
Stigma width:	1 mm
Ovary:	Enclosed in calyx
Plant	
15 Form:	
Growth habit:	Grown as a spray type pot mum, outdoor raised and mounded
Growth rate:	Spherical shape
Height:	Medium
Width:	35 cm
20 Stem color:	45 cm
Stem strength:	Greyed-brown 199A
Stem brittleness:	Strong
Stem anthocyanin coloration:	Not brittle
Internode length:	Not observed
Length of lateral branch:	2 cm
Lateral branch color:	From top to bottom 18-20 cm
25 Lateral branch, attachment:	Green 137 C
Lateral branch diameter:	Weak
Branching (average number of lateral branches):	1.5-2 mm
Natural season blooming date:	Prolific with 8-10 breaks after pinching
Foliage	September 24 (week 39)
30 Leaf color:	Upper side: Green 136B
Color midvein:	Lower side: Green 138A
Size:	Upper side: Yellow-green 147D
35 Quantity (number per lateral branches):	Lower side: Yellow-green 148D
Shape:	Small; length 2-4.5 cm, width 0.8-2 cm
Texture upper side:	24-26
Texture under side:	Elliptic
Venation arrangement:	Sparsely pubescent
40 Shape of margin:	Pubescent
Shape of base of sinus between lateral lobes:	Palmate
Margin of sinus between lateral lobes:	Serrated
Shape of base:	Rounded
Apex:	Diverging
45 Petiole length:	Attenuate
Petiole diameter:	Mucronulite
Petiole color:	0.3-1.2 cm
	1.5 mm
	Yellow-green 147D

TABLE 2

Differences with the comparison varieties, when grown under identical conditions			
	‘Zanmustawhi’	‘Zanmudove’	‘Zanmuglow’
55 Inflorescence size	5 cm	6.5 cm	5 cm
Natural season flowering date	week 39	week 39	week 35

60 I Claim:

1. A new and distinct *Chrysanthemum* plant named ‘Zanmustawhi’ as described and illustrated.

* * * * *

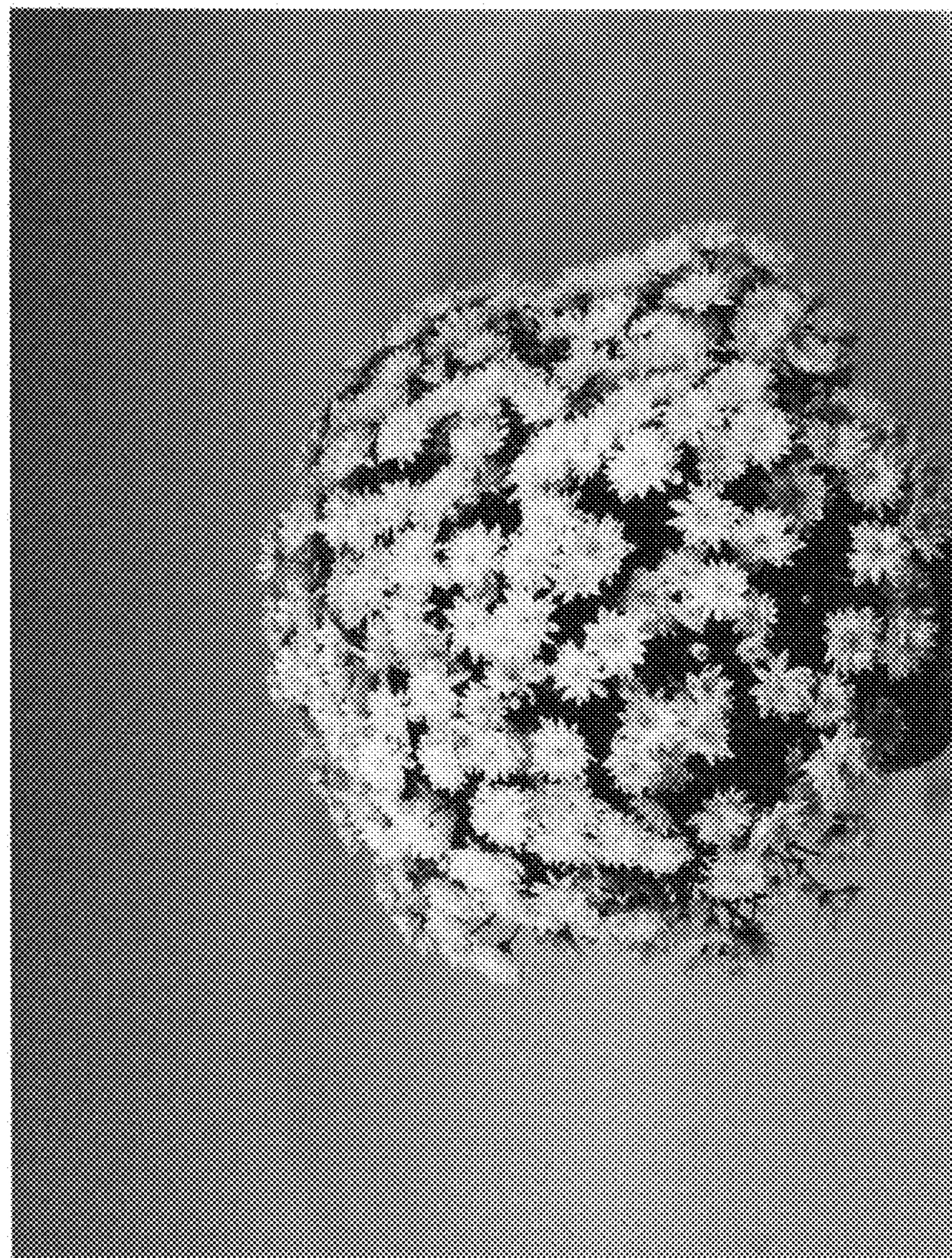


FIG. 1

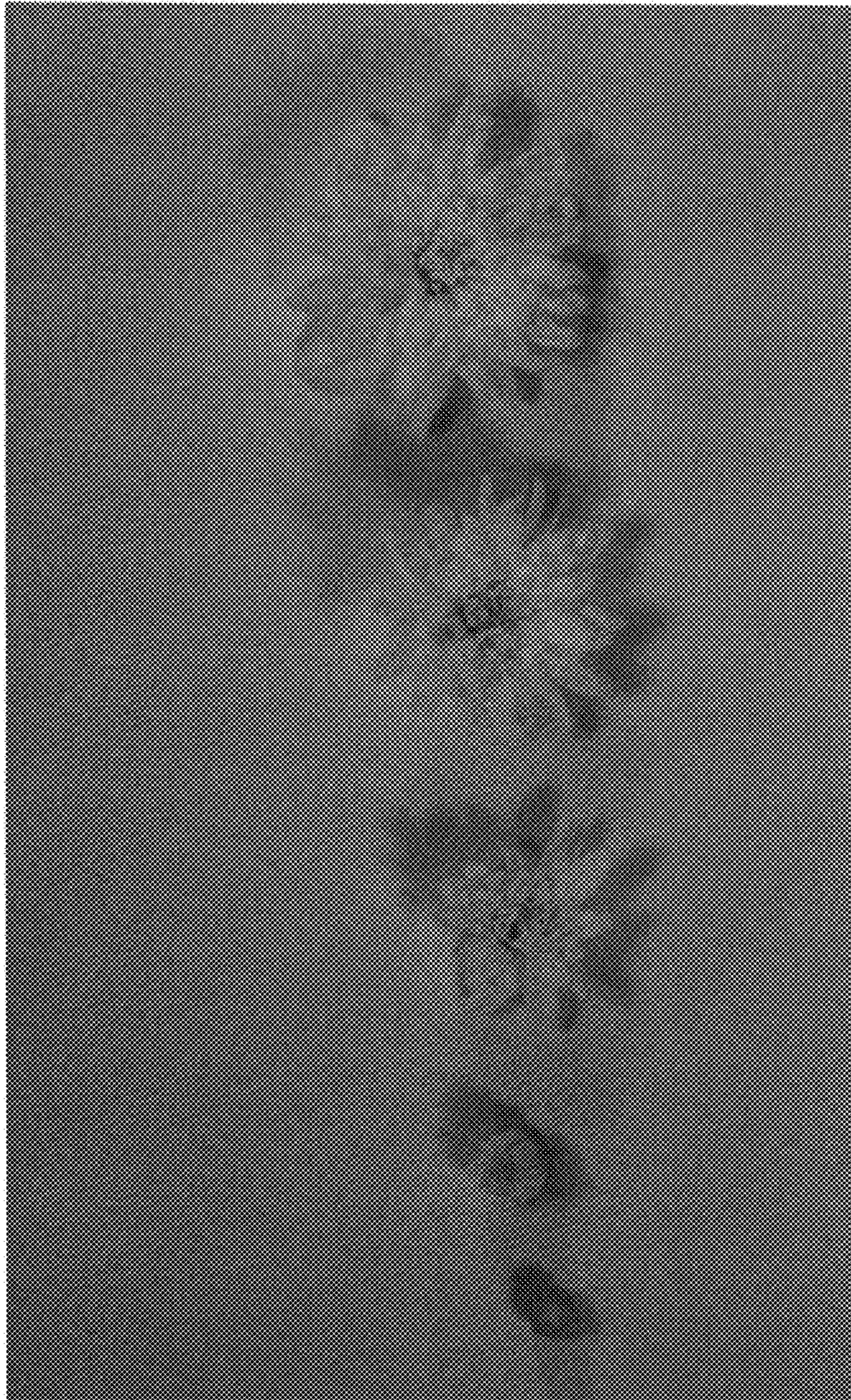


FIG. 2

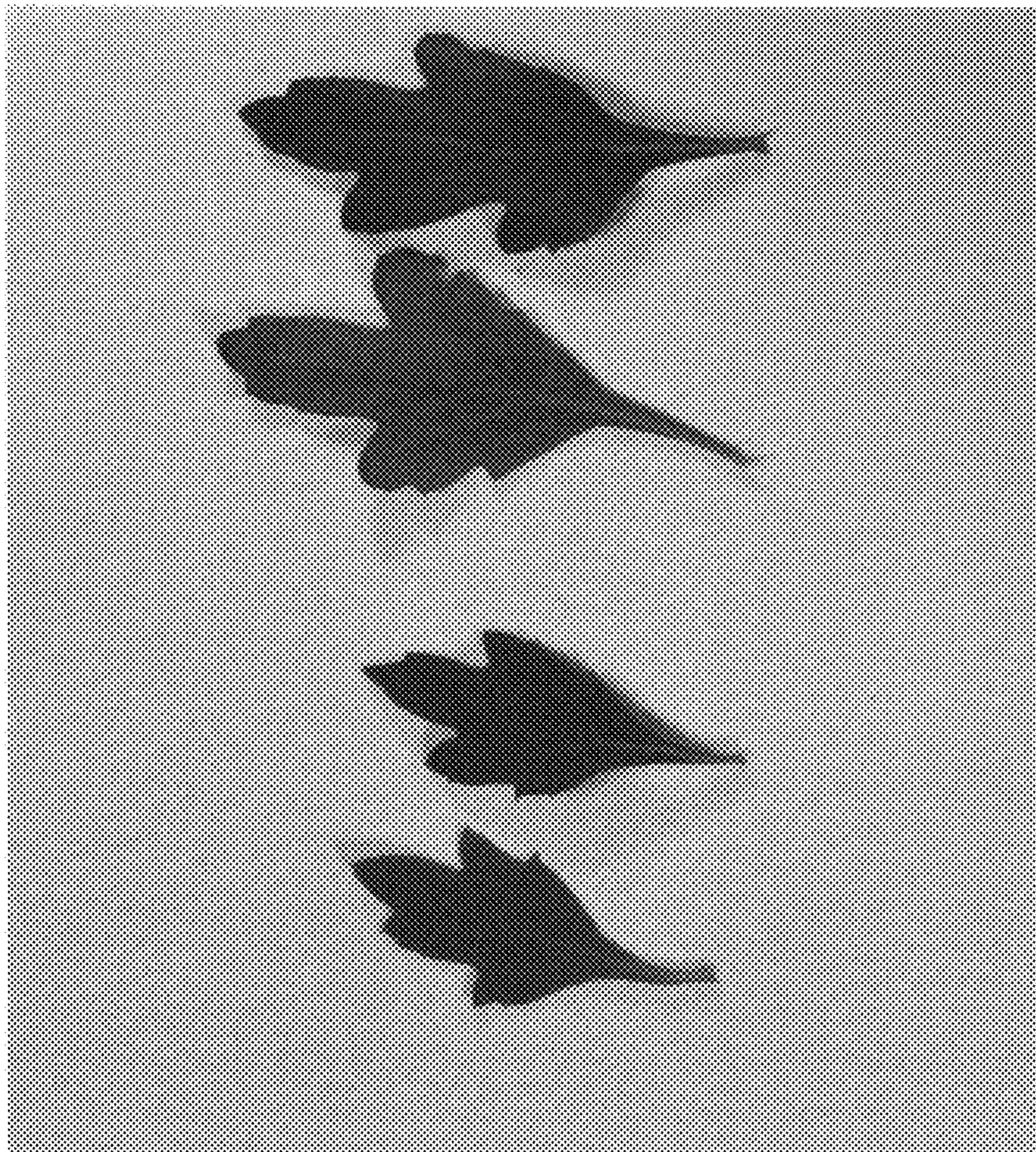


FIG. 3