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

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(54) **CHRYSANTHEMUM PLANT NAMED**
'ZANMUSTAWHI'

(50) Latin Name: *Chrysanthemum*×*morifolium* *Ramat.*
Varietal Denomination: **Zanmustawhi**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 184 days.

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(22) Filed: **Dec. 26, 2012**

(65) **Prior Publication Data**

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(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.**
USPC **Plt./288**

(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

A *Chrysanthemum* plant named 'Zanmustawhi' character-
ized 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

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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 *Chrysanthe-*
mum×*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 accom-
plished 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 succes-
sive 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 cul-
tivar.

FIG. 3 shows the various stages of foliage of the new
cultivar.

DESCRIPTION OF THE INVENTION

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.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmustawhi' are 'Zan-
mudove' (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 differ-
ences are noticed: (1) Inflorescence size. And (2) Natural
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'

The following is a description of the plant and character-
istics that distinguish 'Zanmustawhi' as a new and distinct
variety.

The color designations are taken from the plant itself.
Accordingly, any discrepancies between the color designa-
tions and the colors depicted in the photographs are due to
photographic tolerances. The color chart used in this descrip-
tion is: The Royal Horticultural Society Colour Chart, edition
2001.

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

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:	Grown as a spray type pot mum, outdoor raised and mounded
Growth habit:	Spherical shape
Growth rate:	Medium
Height:	35 cm
Width:	45 cm
Stem color:	Greyed-brown 199A
20 Stem strength:	Strong
Stem brittleness:	Not brittle
Stem anthocyanin coloration:	Not observed
Internode length:	2 cm
Length of lateral branch:	From top to bottom 18-20 cm
Lateral branch color:	Green 137 C
25 Lateral branch, attachment:	Weak
Lateral branch diameter:	1.5-2 mm
Branching (average number of lateral branches):	Prolific with 8-10 breaks after pinching
Natural season blooming date:	September 24 (week 39)
Foliage	
30 Leaf color:	Upper side: Green 136B Lower side: Green 138A
Color midvein:	Upper side: Yellow-green 147D Lower side: Yellow-green 148D
Size:	Small; length 2-4.5 cm, width 0.8-2 cm
35 Quantity (number per lateral branches):	24-26
Shape:	Elliptic
Texture upper side:	Sparsely pubescent
Texture under side:	Pubescent
Venation arrangement:	Palmate
Shape of margin:	Serrated
40 Shape of base of sinus between lateral lobes:	Rounded
Margin of sinus between lateral lobes:	Diverging
Shape of base:	Attenuate
Apex:	Mucronulite
45 Petiole length:	0.3-12 cm
Petiole diameter:	1.5 mm
Petiole color:	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 'Zan-
mustawhi' as described and illustrated.

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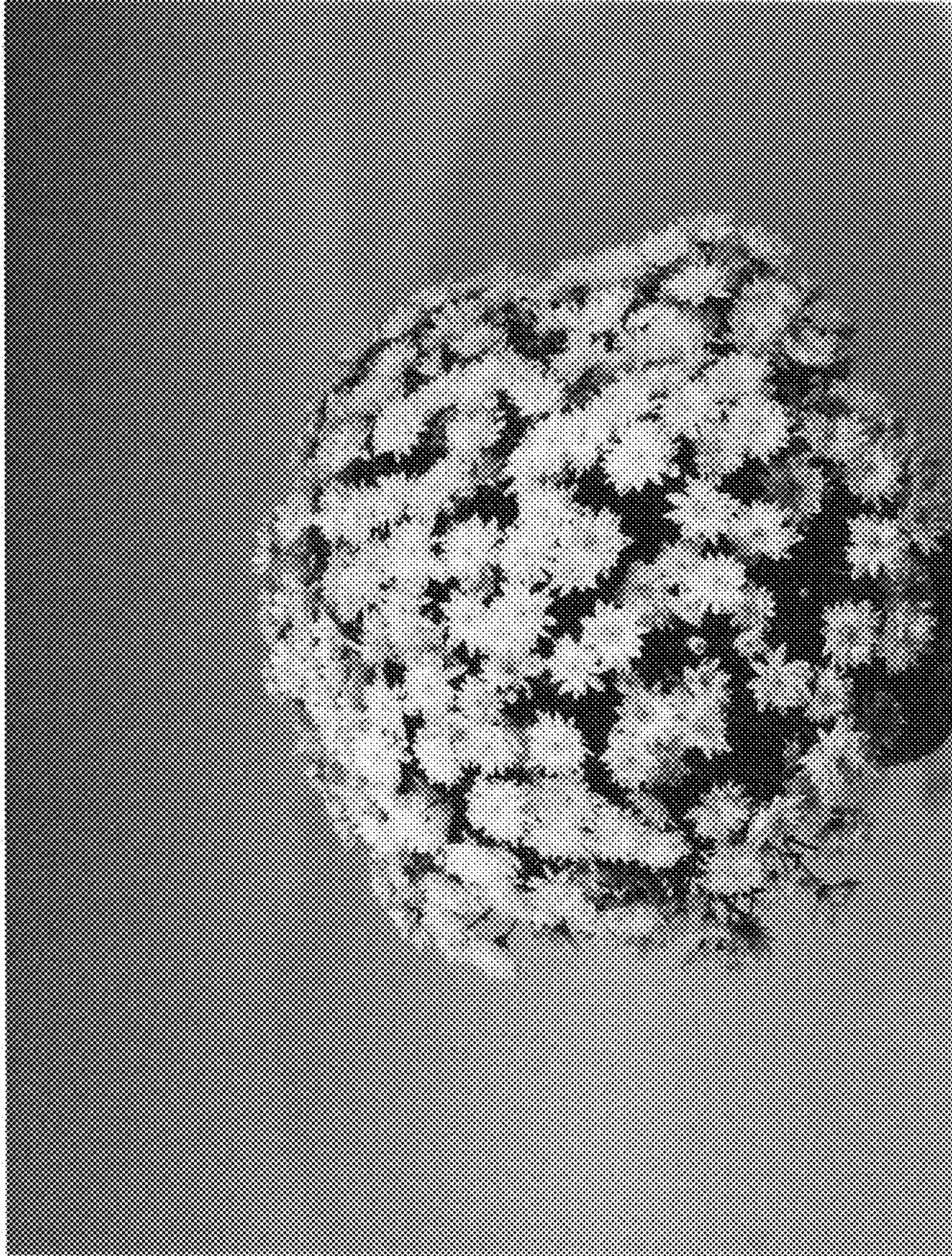


FIG. 1

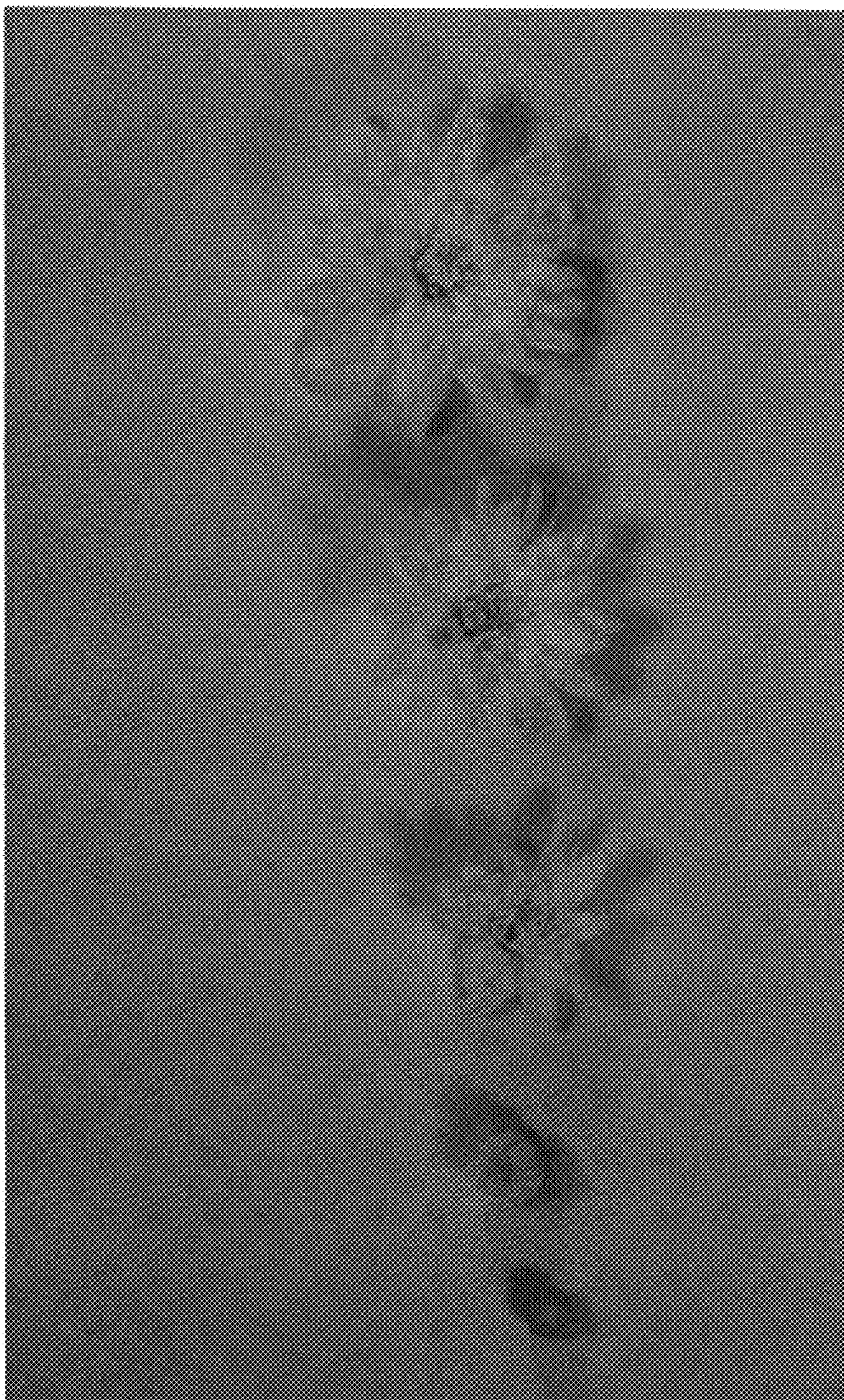


FIG. 2

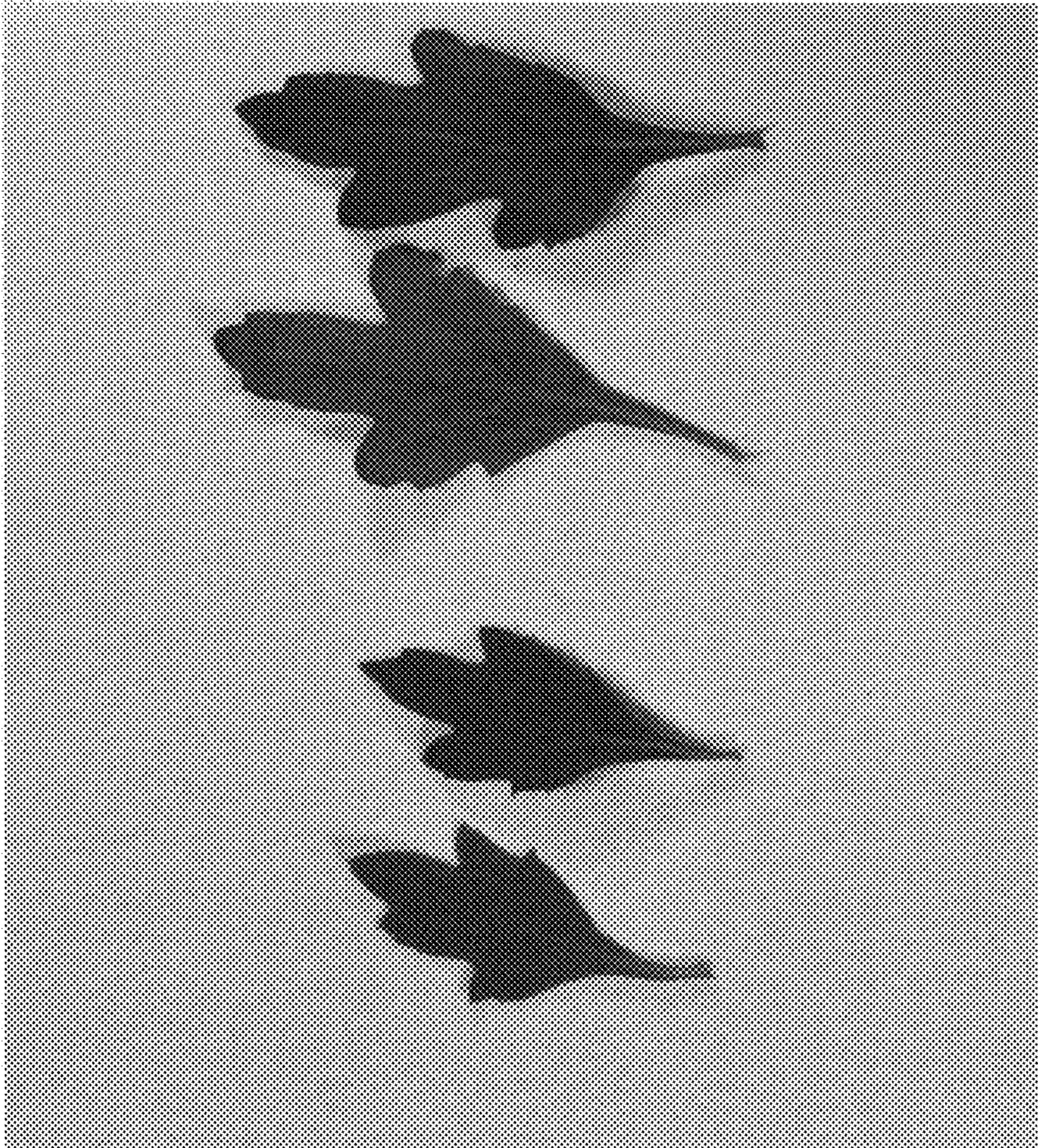


FIG. 3