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

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

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

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(73) Assignee: **Chrysanthemum Breeders Association**
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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 0 days.

(21) Appl. No.: **12/314,959**

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A01H 5/00 (2006.01)

(52) U.S. Cl. **Plt./289**

(58) **Field of Classification Search** **Plt./289**
See application file for complete search history.

Primary Examiner—Kent L Bell

(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmusundown' character-
ized by its medium sized blooms with yellow ray florets and
prolific branching; natural season flower date October 6–10;
blooming for a period of 5 weeks.

3 Drawing Sheets

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BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *chrysanthemum* plant, botanically known as *Chrysanthemum*×*morifolium* Ramat., and hereinafter referred to by the
cultivar denomination 'Zanmusundown'. 'Zanmusundown'
is a product of a breeding and selection program for outdoor
pot mums (garden mums) which had the objective of creating
new *chrysanthemum* cultivars with a double type inflores-
cence, a natural season flower date starting at October 6–10;
blooming for a period of 5 weeks. 'Zanmusundown' is a
seedling resulting from the crossing of the female parent id
2824 and male parent id 4678. Plants of 'Zanmusundance'
differ from plants of the parents in ray-floret color; that of the
seedling is yellow, while that of the female parent is white,
and of the male parent pink.

The new and distinct cultivar was discovered and selected
as a flowering plant by Wilhelmus Bernardus Blom on a
cultivated field in Rijnsenhout, The Netherlands in 2004. The
first act of asexual production of 'Zanmusundown' was
accomplished when vegetative cuttings were used from the
initial selection in 2004 and propagated further in a controlled
environment in Rijnsenhout, The Netherlands. The new culti-
var 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 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 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 Rijnsenhout, The Netherlands under
natural day length and temperature and planted in week 22 in

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2008. The natural blooming date of this crop was October
6–10. The average height of the plants was 25 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 yellow ray florets blooming for a period of 5
weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmusundown' is 'Zan-
musundance' (U.S. Plant patent application Ser. No. 12/314,
958). When 'Zanmusundance' and 'Zanmusundown' are
being compared the following differences are noticed: The
difference of 'Zanmusundance' and 'Zanmusundown' (1)
Plant size. And (2) Flower color (1) The plants of 'Zanmusun-
dance' are larger than those of 'Zanmusundown' (2) The
flowers of 'Zanmusundance' are more soft yellow than those
of 'Zanmusundown'.

The following is a description of the plant and charac-
teristics that distinguish 'Zanmusundown' 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 Color Chart, edition
2001.

TABLE 1

Botanical Description of
Chrysanthemum × *morifolium* Ramat. 'Zanmusundown'

Bud

Size	Small; cross-section 0.5 cm, height 0.4 cm
Shape	Oblate
Texture	Pubescent
Outside Color	Greyed-green 191A
<u>Phyllaries</u>	

Number	50, arranged in 3 rows
Shape	Elliptic
Apex	Acute
Base	Truncate
Margin	Entire

TABLE 1-continued

Botanical Description of <i>Chrysanthemum xmorifolium</i> Ramat. ‘Zanmusundown’	
Color	Upper side: Greyed-green 191A Lower side Greyed-green 191C
Length and width	4 mm; 1 mm
Texture	Pubescent
<u>Inflorescence</u>	
Type	Double
Height	1.7 cm
Diameter	4.5 cm
Peduncle length	5 cm
Peduncle color	Green 139B
Peduncle diameter	1 mm
Peduncle surface	Pubescent
Numbers per branch	Approx. 8 inflorescences
Flowering period individual inflorescence	Ca.4 weeks
Seeds	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm diameter 0.8 mm
Fragrance	Faint <i>chrysanthemum</i> odor
<u>Color</u>	
Center of inflorescences (ray-florets)	Immature stage: Yellow-orange 15A Mature stage: Yellow-orange 15A
Color of upper surface of the ray-florets	Yellow 12A
Color of the lower surface of the ray-florets	Yellow 3B
Tonality from Distance	A garden mum with yellow inflorescences
Color of the ray-florets after aging of the plant	Yellow 12C
<u>Ray florets</u>	
Texture	Upper and lower side smooth
Number	150
Shape	Elliptic
Apex	Rounded
Base	Attenuate
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	5 mm
Ray-floret margin	Entire
Ray-floret length	1.7 cm-2 cm
Ray-floret width	6 mm
Ratio length/width	Medium
<u>Disc florets</u>	
Disc diameter	1-2 mm
Distribution of disc florets	Scarce, only visible in mature bloom
Shape	Tubular
Color	Yellow 11D at apex, Yellow-green at 150D at base
Number	Ca. 4-5
Length	0.5 mm
Diameter	0.3 mm
<u>Receptacle</u>	
Shape	Conical raised
Height	3 mm
Diameter	4 mm
Color	Green 138C
<u>Reproductive Organs</u>	
Androecium	Present in disc florets only
Stamen length	3 mm
Stamen color	Yellow-green 144A
Anther color	Yellow 3A
Pollen	Small amount produced
Pollen	Yellow 12 A

TABLE 1-continued

Botanical Description of <i>Chrysanthemum xmorifolium</i> Ramat. ‘Zanmusundown’	
Gynoecium	Present in both ray and disc florets
Style color	Yellow-green 154C
Style Length	3 mm
Stigma color	Yellow 3A
Stigma Width	1 mm
10 Ovary	Enclosed in calyx
<u>Plant</u>	
Form	Grown as a potmum, outdoor raised and mounded
Growth habit	Spherical shape
15 Growth rate	Low
Height	25 cm
Width	40 cm
Stem Color	Greyed-brown 199A
Stem Strength	Weak
Stem Brittleness	Brittle
20 Stem Anthocyanin Coloration	Not observed
Internode length	1-2 cm
Length of lateral branch	From top to bottom 19 cm
Lateral branch color	Green 137 C
Lateral branch diameter	2-3 mm
Lateral branch brittleness	Brittle
25 Branching (average number of lateral branches)	Prolific with 10 breaks after pinching
Natural season blooming date	October 6-10 to November 10-14
<u>Foliage</u>	
Leaf color	Upper side: Green 139B Lower side: Green N138B to N138C
30 Color midvein	Upper side: Yellow-green 147D Lower side: Yellow-green 148D
Size	Small.; length 1.5-6 cm, width 2-3.5 cm
Quantity (number per lateral branch)	16-18
35 Shape	Elliptic
Texture upper side	Sparsely pubescent
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Entire to serrated
Shape of Base of Sinus	Rounded
40 Between Lateral Lobes	
Margin of Sinus Between	Diverging
Lateral Lobes	
Shape of Base	Attenuate
Apex	Mucronulate
Petiole length	0.5-1.5 cm
Petiole diameter	2-3 mm
45 Petiole color	Yellow-green 147D

TABLE 2

50	<u>Differences with the comparison variety</u>		
		‘Zanmusundown’	‘Zanmusundance’
	Plant height	25 cm	30 cm
	Plant width	40 cm	45 cm
55	Color inflorescences disc	Yellow-orange 15A	Yellow 13A
	Color upper side ray-florets	Yellow 12A	Yellow 9A

I claim:

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

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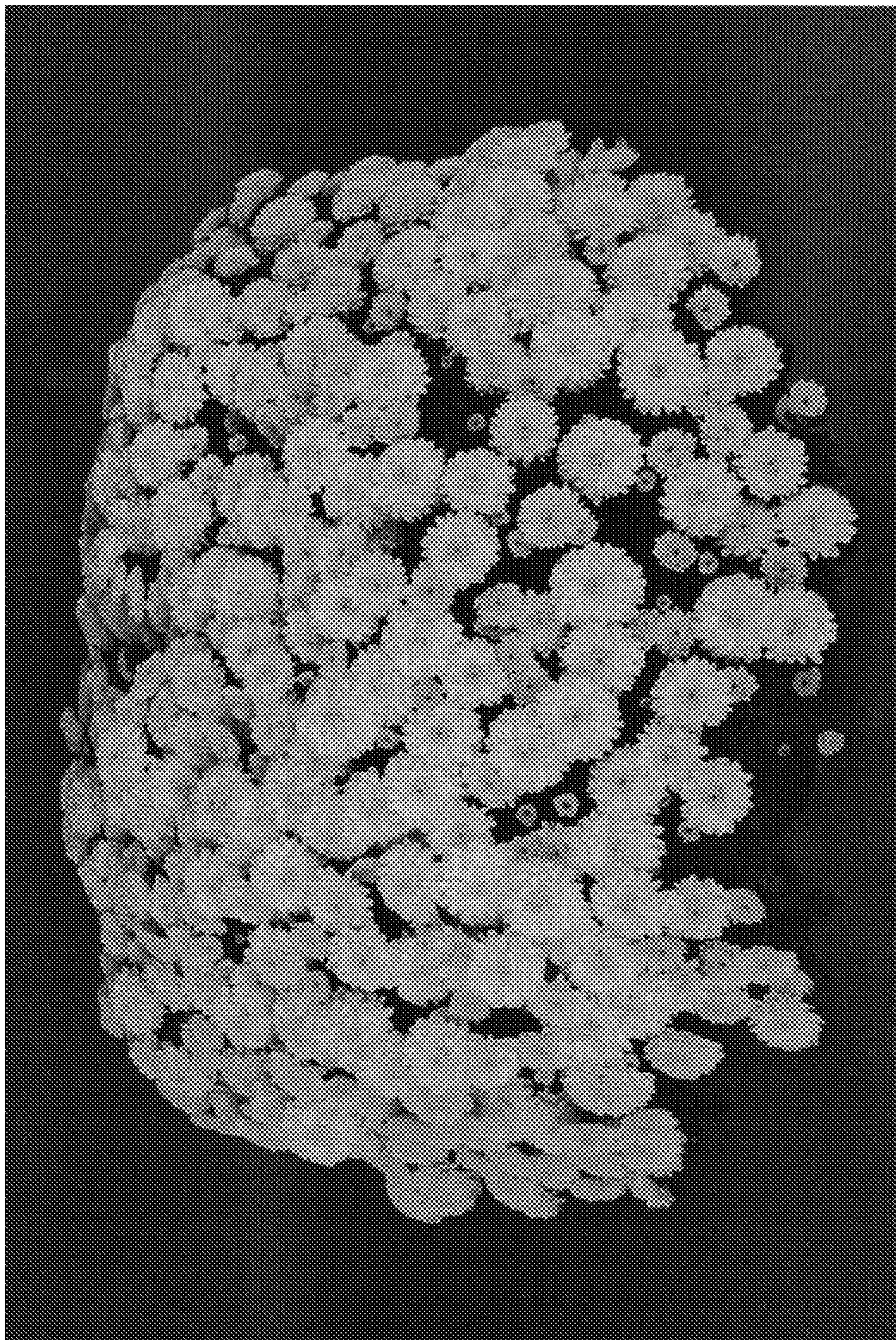


FIG. 1

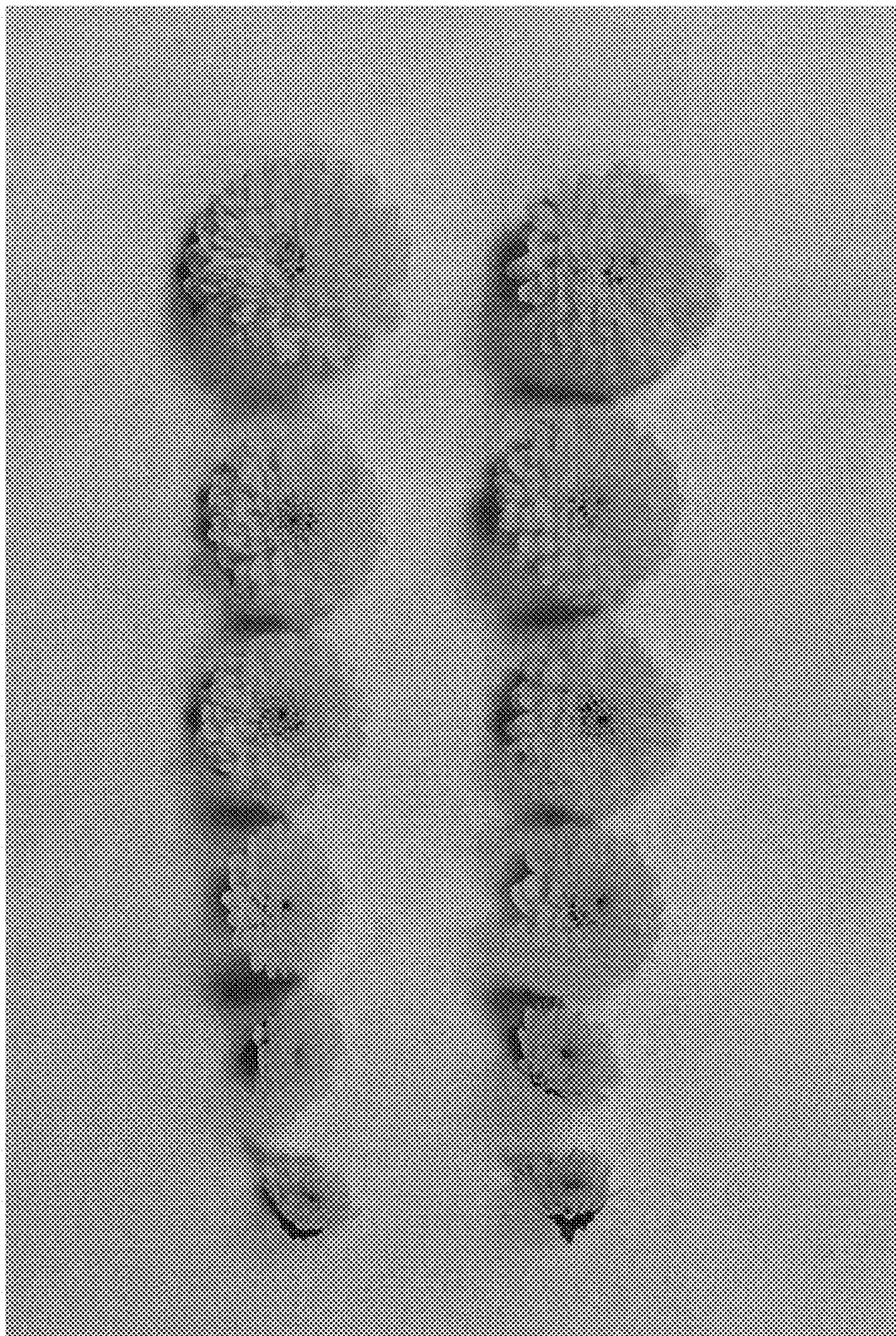


FIG. 2

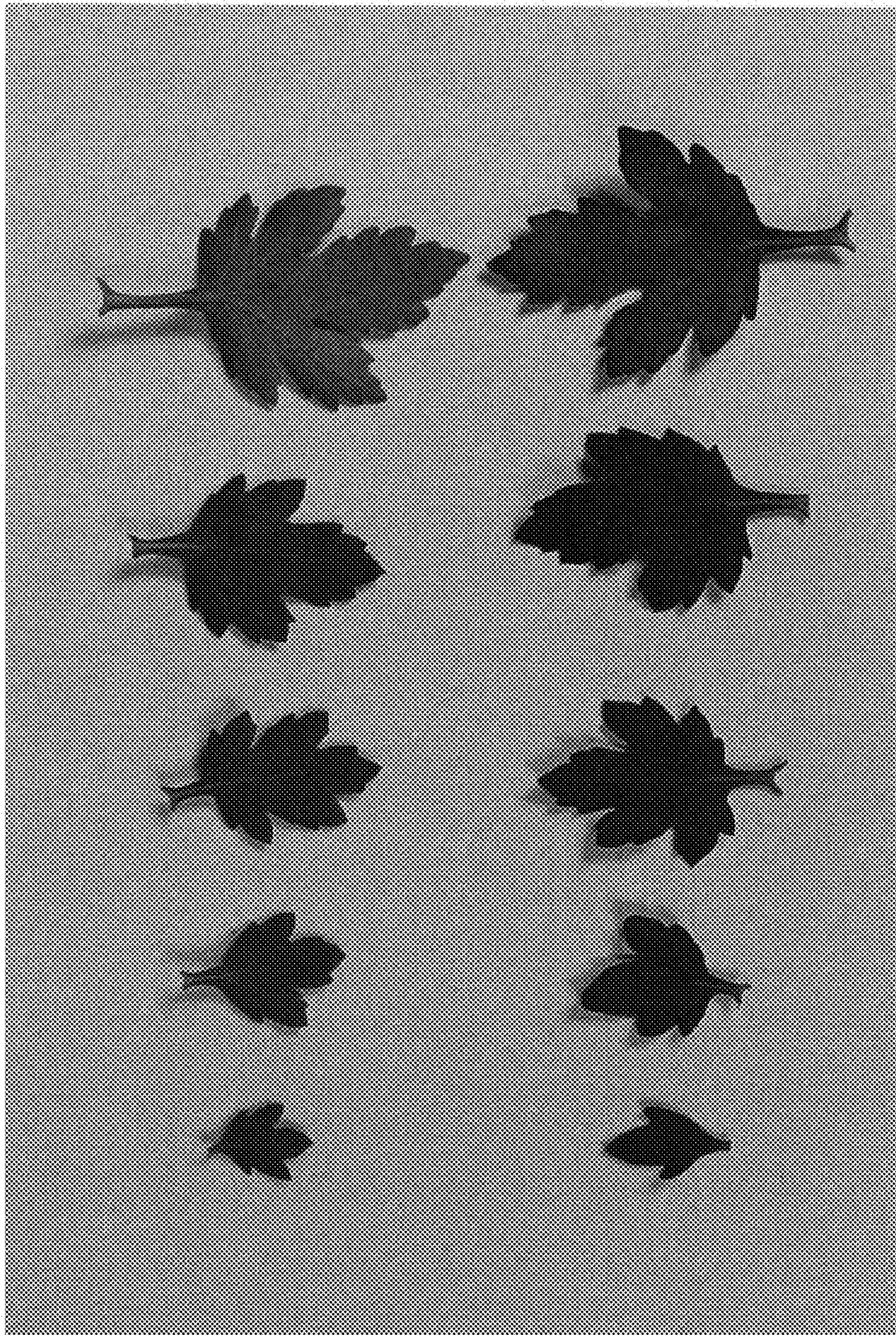


FIG. 3