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

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

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

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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 13 days.

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(22) Filed: **Nov. 24, 2010**

(65) **Prior Publication Data**

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

(52) **U.S. Cl.** **Plt./297**

(58) **Field of Classification Search** **Plt./297**
See application file for complete search history.

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmuperfect' characterized
by its medium sized blooms with pink ray florets and prolific
branching; natural season flower date September 14 (week
38); blooming for a period of 5 weeks.

3 Drawing Sheets

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Botanical designation: *Chrysanthemum*×*morifolium*
Ramat.

Cultivar denomination: 'Zanmuperfect'.

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
'Zanmuperfect'. 'Zanmuperfect' 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 flower date
around September 14 (week 38), blooming for a period of 5
weeks. 'Zanmuperfect' is a seedling resulting from a cross of
the female parent id 9396 with the male parent id 45821.
Plants of the new cultivar 'Zanmuperfect' differ from plants
of the female parent in the color of the ray-florets. The ray-
florets of the seedling are pink, while those of the female
parent are red. Plants of the new cultivar 'Zanmuperfect'
differ from plants of the male parent in the presence of disc
florets. (1) Disc florets are absent in all stages of flowering of
the seedling, while they are present in mature inflorescences
of the male parent.

The new and distinct cultivar was discovered and selected
as a flowering plant by Wilhelmus Bernardus Blom on a
cultivated field in Rijsenhout, The Netherlands in 2005. The
first act of asexual production of 'Zanmuperfect' was accom-
plished when vegetative cuttings from the initial selection in
2005 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 is shown in the accompanying drawings, the
color being as nearly true as possible with color photographs
of this type.

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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
2009. The natural blooming date of this crop was September
14 (week 38). 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 pink ray florets and a dark center blooming
for a period of 5 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmuperfect' is 'Stella'
(U.S. Plant Pat. No. 15,421). When 'Stella' and 'Zanmuper-
fect' are being compared the following difference is noticed:
The difference of 'Stella' and 'Zanmuperfect' are (1) Natural
season flowering date. And (2) Color ray florets. (1) The
plants of 'Zanmuperfect' flower later than those of 'Stella'.
(2) The ray-florets of 'Zanmufperfect' are pink, while those of
'Stella' are more peach colored.

The following is a description of the plant and character-
istics that distinguish 'Zanmuperfect' 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 xmorifolium</i> Ramat. 'Zanmuperfect'	
<u>Bud</u>	
Size	Small; cross-section 5 mm, height 4 mm
Shape	Round
Texture	Pubescent
Outside Color	Greyed-green 191A
<u>Phyllaries</u>	
Number	24-26, arranged in 3 rows
Shape	Elliptic
Apex	Acute
Base	Truncate
Margin	Entire
Color	Upper surface: Greyed green 191B
Length and width	8 mm; 3 mm
Texture	Pubescent
<u>Inflorescence</u>	
Type	Double
Height	2 cm
Diameter	6 cm
Peduncle length	7-9 cm
Peduncle color	Green 138B to C
Peduncle diameter	1.5 mm
Peduncle texture	Pubescent
Number per branch	Approx. 7 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 chrysanthemum odor
<u>Color</u>	
Center of inflorescence	Immature stage: Red 51A Mature stage: Red 51A
Color of upper surface of the ray-florets	Red-purple 70D
Color of the lower surface of the ray-florets	Red-purple 73 C-D
Tonality from Distance	A garden mum with pink flowers and a dark center
Color of the ray-florets after aging of the plant	Violet 84C
<u>Ray florets</u>	
Texture	Upper and lower surface smooth
Number	240-250
Shape	Elliptic
Apex	Dentate
Base	Attenuate
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	2-3 mm
Ray-floret margin	Entire
Ray-floret length	2-2.8 cm
Ray-floret width	4-5 mm
Ratio length/width	High
Disc florets	Absent
<u>Receptacle</u>	
Color	Yellow-green 145D
Shape	Conical raised
Height	5 mm
Diameter	6 mm
<u>Reproductive Organs</u>	
Androecium	Absent
Pollen	Not produced

TABLE 1-continued

Botanical Description of <i>Chrysanthemum xmorifolium</i> Ramat. 'Zanmuperfect'		
5	Gynoecium	Present on ray florets
	Style color	Yellow-green 154C
	Style Length	3 mm
	Stigma color	Yellow 7A
	Stigma Width	1 mm
	Ovary	Enclosed in calyx
10	<u>Plant</u>	
	Form	Grown as a spray type pot mum, outdoor raised and mounded
	Growth habit	Spherical shape
	Growth rate	Medium
15	Height	25 cm
	Width	45 cm
	Stem Color	Greyed-brown 199A
	Stem Strength	Medium
	Stem Brittleness	Brittle
	Stem Anthocyanin Coloration	Not observed
20	Internode length	2 cm
	Length of lateral branch	From top to bottom 19 cm
	Lateral branch color	Green 137 C
	Lateral branch, attachment	Weak
	Lateral branch diameter	2 mm
	Branching (average number of lateral branches)	Prolific with 7 breaks after pinching
25	Natural season blooming date	September 14 (week 38)
<u>Foliage</u>		
	Leaf color	Upper side: Green 137A Lower side: Green 138A
	Color midvein	Upper side: Yellow-green 147D Lower side: Yellow-green 148D
30	Size	Small; length 4.5-7cm, width 2.5-3 cm
	Quantity (number per lateral branch)	23-25
	Shape	Broadly elliptic
	Texture upper side	Sparsely pubescent
35	Texture under side	Pubescent
	Venation arrangement	Palmate
	Shape of the margin	Serrated
	Shape of Base of Sinus	Rounded
	Between Lateral Lobes	
	Margin of Sinus Between Lateral Lobes	Diverging
40	Shape of Base	Attenuate
	Apex	Mucronulate
	Petiole length	0.5-1 cm
	Petiole diameter	2 mm
	Petiole color	Yellow-green 147D

TABLE 2

Differences with the comparison variety (when grown side to side)		
	'Zanmuperfect'	'Stella'
50	Natural season flowering date	Week 38
	Color upper surface ray-florets	Red-purple 70D
		Week 35
		Orange 29C
55	I claim:	
	1. A new and distinct <i>chrysanthemum</i> plant named 'Zanmuperfect' as described and illustrated.	
60	* * * * *	

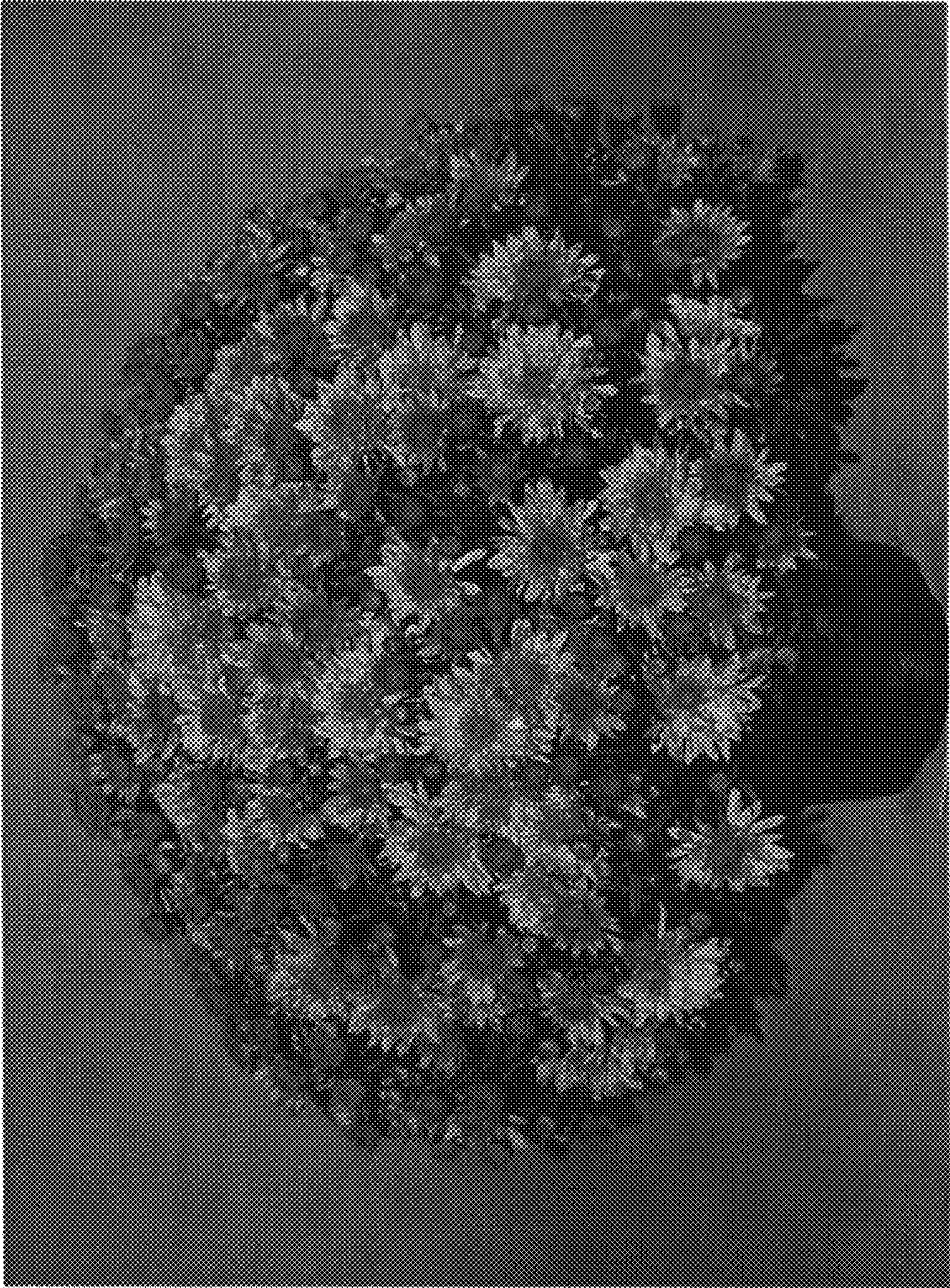


FIG. 1

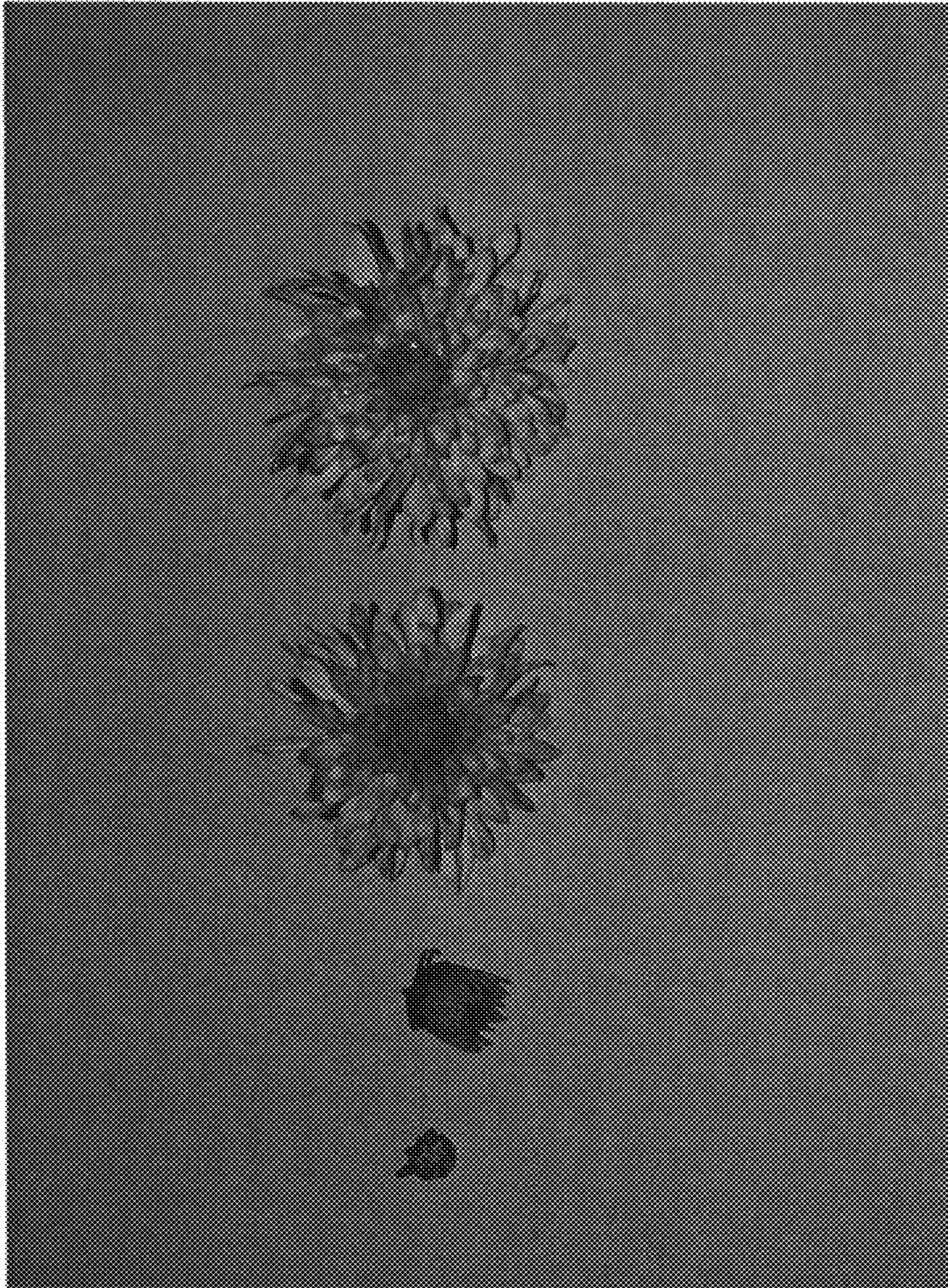


FIG. 2

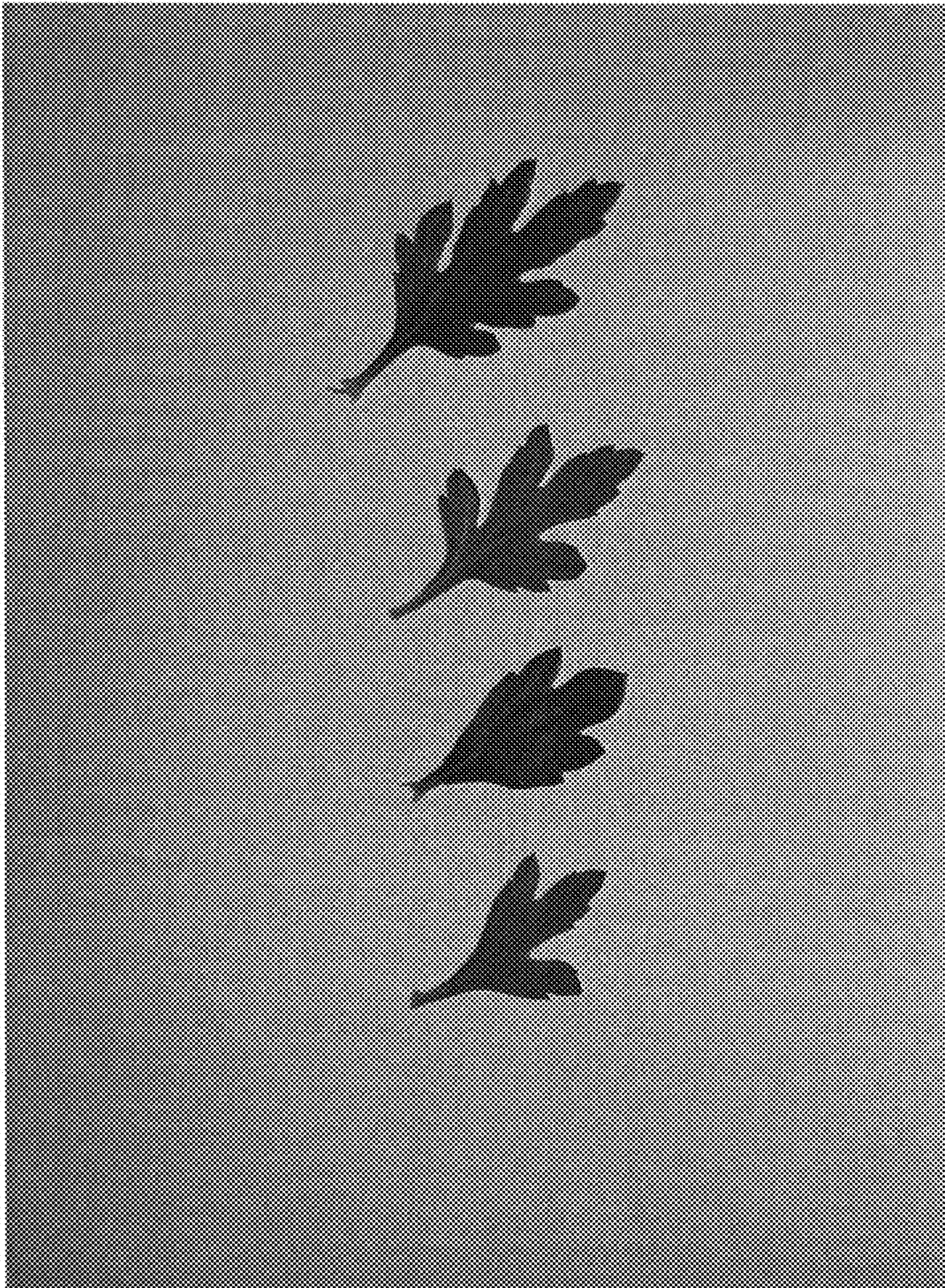


FIG. 3