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

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

(65) **Prior Publication Data**

US 2014/0182032 P1 Jun. 26, 2014

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

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

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(52) **U.S. Cl.**
USPC **Plt./287**

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(58) **Field of Classification Search**
USPC Plt./287
See application file for complete search history.

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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.

(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmufrenzy' characterized
by its medium sized blooms with purple ray florets and pro-
lific branching; natural season flowering date September 3;
blooming for a period of 5 weeks.

(21) Appl. No.: **13/694,695**

3 Drawing Sheets

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

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

Cultivar denomination: 'Zanmufrenzy'.

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
'Zanmufrenzy'. 'Zanmufrenzy' 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 3 (week 36), blooming for a period of 5
weeks. 'Zanmufrenzy' is a seedling resulting from a cross of
the female parent id 24446 with the male parent id 27629.
Plants of the new cultivar 'Zanmufrenzy' differ from plants
of the female parent in the color of the ray-florets; the ray-florets
of the seedling are purple, while those of the female parent are
red. Plants of the new cultivar 'Zanmufrenzy' differ from
plants of the male parent in the following characteristics. (1)
Color ray-florets. And (2) Inflorescence type. (1) The ray-
florets of the seedling are less intensively purple colored than
those of the male parent. (2) The inflorescence type of the
seedling is double, while that of the male parent is semi-
double. 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 2008.
The first act of asexual production of 'Zanmufrenzy' was
accomplished when vegetative cuttings from the initial selec-
tion in 2008 were propagated further in a controlled environ-
ment 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 is shown in the accompanying drawings (of

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about 15 weeks), 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
3 (week 36). The average height of the plants was 35 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 purple ray florets blooming for a period of
5 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmufrenzy' is 'Zanmu-
flamin' (U.S. Plant Pat. No. 20,589). When 'Zanmuflamin'
and 'Zanmufrenzy' are being compared the following differ-
ences are noticed: (1) Color ray-florets. And (2) Plant vigor.
(1) The ray-florets of 'Zanmufrenzy' are more dark pink than
those of 'Zanmuflamin'. (2) The plants of 'Zanmufrenzy' are
more vigorous than those of 'Zanmuflamin'.

The following is a description of the plant and character-
istics that distinguish 'Zanmufrenzy' 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. 'Zanmufrenzy'	
<u>Bud</u>	
Size:	Small; cross-section 8 mm, height 5 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191A
<u>Phyllaries</u>	
Number:	27, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green N138B Lower side: Green 141B
Length and width:	7 mm; 2 mm
Texture:	Pubescent
<u>Inflorescences</u>	
Type:	Double
Height:	1.8 cm
Diameter:	5.5 cm
Peduncle length:	6-10 cm
Peduncle color:	Yellow-green 147C
Peduncle diameter:	2 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 chrysanthemum odor
<u>Color inflorescences</u>	
Center of inflorescence:	Immature stage: Red-purple 59B; Mature stage: Red-purple 60B
Color of upper side of ray florets:	Red-purple 60C and Yellow 13C at base
Color of lower side of ray florets:	Greyed-purple 185C and Yellow 13D at base
Tonality from distance:	A garden mum with purple blooms
Color of ray florets after aging of the plant:	Greyed-purple 186B
<u>Ray florets</u>	
Texture:	Upper and under side smooth
Number:	160-180
Shape:	Elliptic
Apex:	Pointed
Base:	Attenuate
Cross-section:	Flat
Longitudinal axis:	Straight
Length of corolla tube:	3 mm
Ray floret margin:	Entire
Ray floret length:	1.5-3 cm
Ray floret width:	2-8 mm
Ratio length/width:	Medium
Disc florets	None
<u>Receptacle</u>	
Color:	Yellow-green 145D
Shape:	Domed raised
Height:	4 mm
Diameter:	3 mm
<u>Reproductive Organs</u>	
Androecium:	Absent
Pollen:	Absent
Gynoecium:	Present on ray florets
Style color:	Yellow-green 154C

TABLE 1-continued

Botanical Description of <i>Chrysanthemum xmorifolium</i> Ramat. 'Zanmufrenzy'	
5	Style length: 3 mm Stigma color: Yellow 7A Stigma width: 1 mm Ovary: Enclosed in calyx Plant
10	Form: Grown as a spray type pot mum, outdoor raised and mounded Growth habit: Spherical shape Growth rate: Medium to high Height: 35 cm Width: 45 cm
15	Stem color: Greyed-brown 199A Stem strength: Low Stem brittleness: Brittle Stem anthocyanin coloration: Not observed Internode length: 1.5-2 cm
20	Length of lateral branch: From top to bottom 20 cm Lateral branch color: Green 137 C Lateral branch, attachment: Brittle Lateral branch diameter: 2 mm Branching (average number of lateral branches): Prolific with 7-8 breaks after pinching
25	Natural season blooming date: September 3 (week 36) <u>Foliage</u>
30	Leaf color: Upper side: Green 137A; Lower side: Green 138A Color midvein: Upper side: Yellow-green 147D; Lower side: Yellow-green 148D Size: Small; length 3-5.5 cm, width 1.5-3.5 cm Quantity (number per lateral branches): 12-14
35	Shape: Elliptic Texture upper side: Sparsely pubescent Texture under side: Pubescent Venation arrangement: Palmate Shape of margin: Serrated Shape of base of sinus between lateral lobes: Rounded
40	Margin of sinus between lateral lobes: Diverging Shape of base: Truncate to attenuate Apex: Mucronulate Petiole length: 1-2.5 cm Petiole diameter: 1.5 mm
45	Petiole color: Yellow-green 147D

TABLE 2

Differences with the comparison variety, when grown under identical conditions			
		'Zanmufrenzy'	'Zanmuflamin'
50	Color ray-florets	Red-purple 60C	Red-purple 59D
55	Plant height	35 cm	30 cm

I claim:

1. A new and distinct *chrysanthemum* plant named 'Zanmufrenzy' as described and illustrated.

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FIG. 1

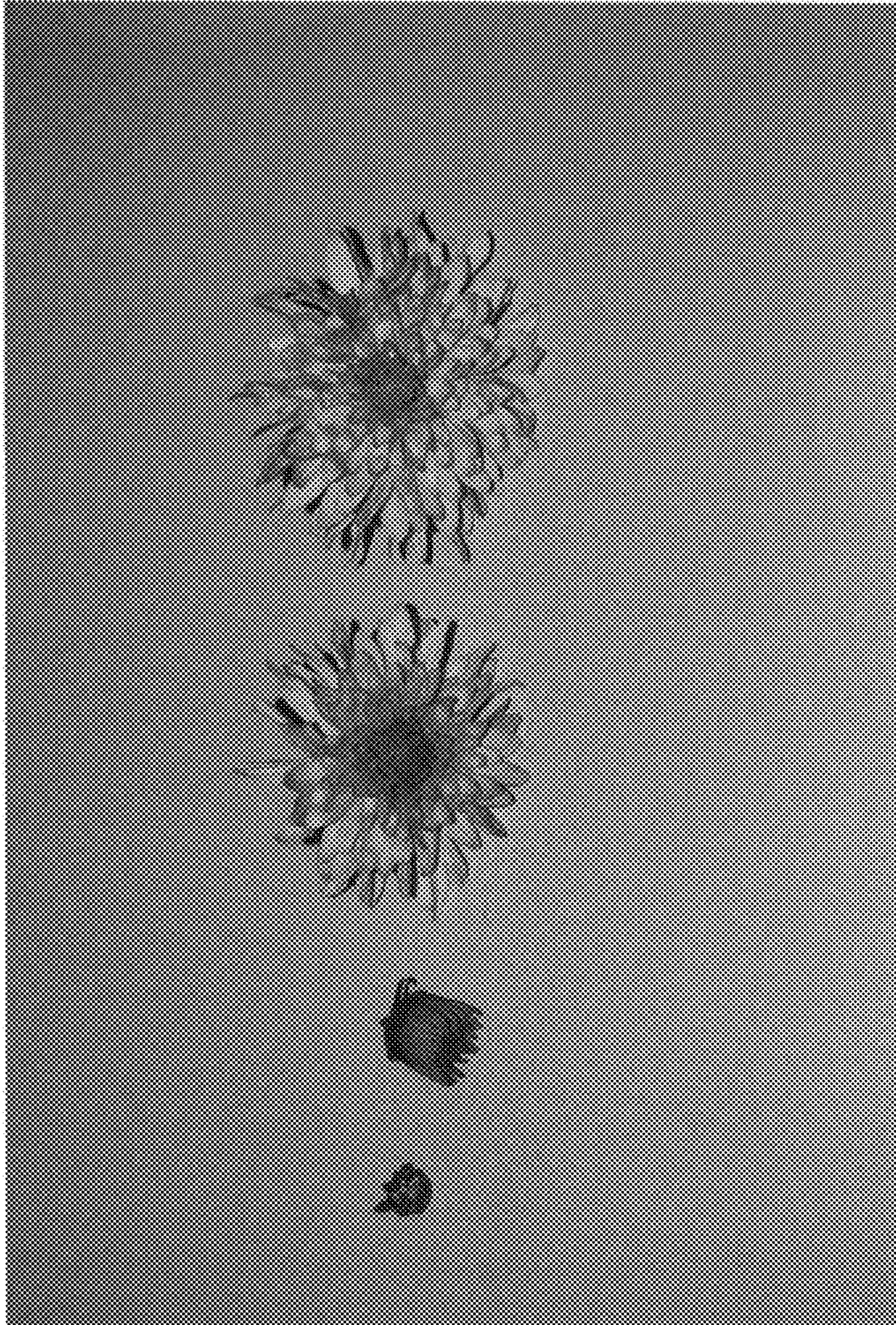


FIG. 2

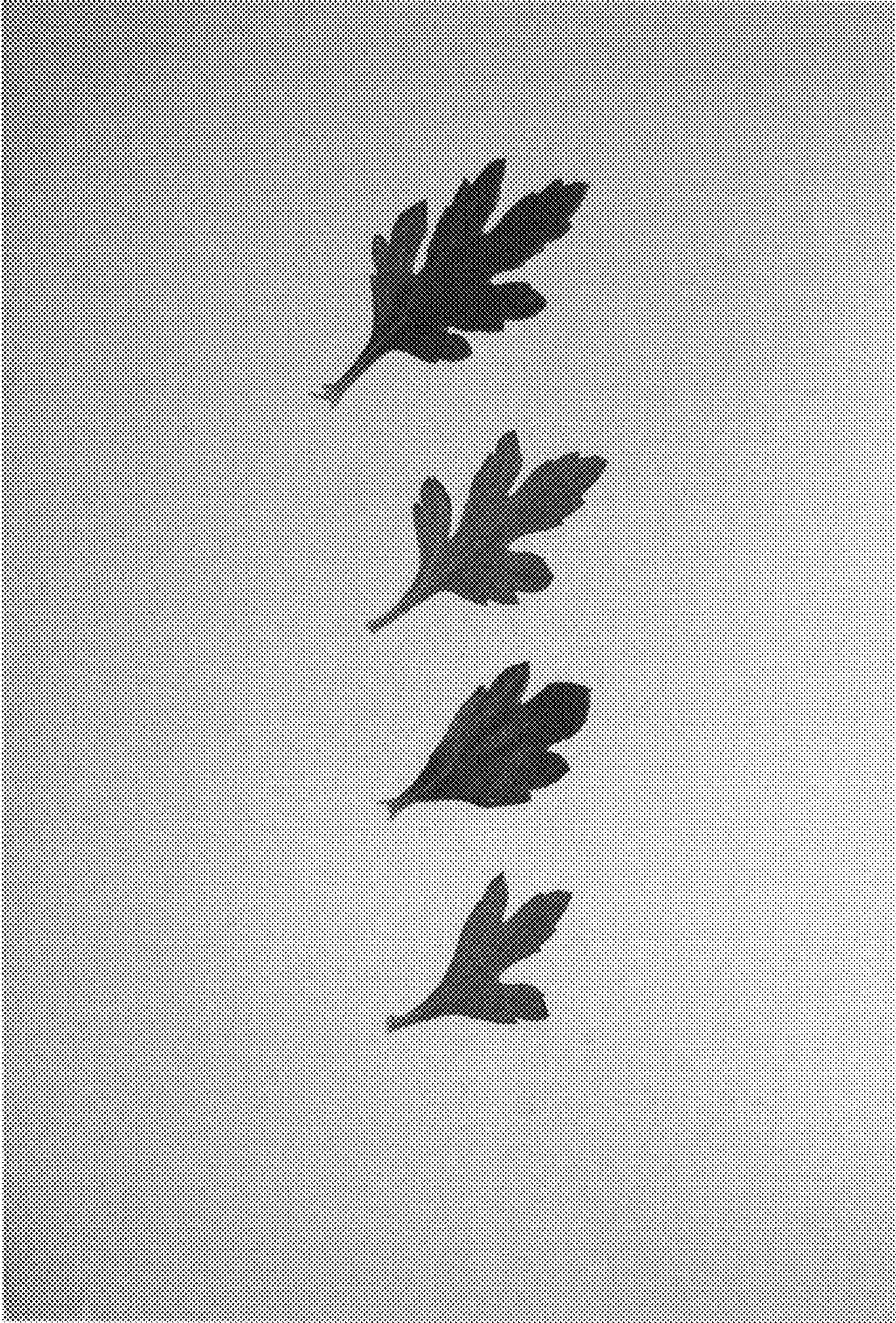


FIG. 3