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Jacobs

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

(65) **Prior Publication Data**
US 2016/0192567 P1 Jun. 30, 2016

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

(51) **Int. Cl.**
A01H 5/02 (2006.01)

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(52) **U.S. Cl.**
USPC **Plt./290**

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(58) **Field of Classification Search**
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CPC A01H 5/0255; A01H 5/025
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 'Zanmuzest' characterized by
its medium sized blooms with bronze ray florets and prolific
branching; natural season flowering date September 22;
blooming for a period of about 4 to 5 weeks.

(21) Appl. No.: **14/544,363**

(22) Filed: **Dec. 30, 2014**

3 Drawing Sheets

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Botanical designation: *Chrysanthemum×morifolium*
Ramat.
Cultivar denomination: 'Zanmuzest'.

RELATED CULTIVARS

This new plant cultivar 'Zanmuzest' is of the botanical
classification *Chrysanthemum×morifolium* Ramat.

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
'Zanmuzest'. 'Zanmuzest' 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 22, blooming for a period of about 4 to 5
weeks. 'Zanmuzest' is a seedling resulting from a cross of the
female parent 24577 with the male parent 17159. Plants of the
new cultivar 'Zanmuzest' differ from plants of the female
parent in the following characteristics. (1) Ray-floret color.
And (2) Natural season flowering date. (1) Ray-florets of the
seedling are bronze colored, while those of the female parent
are yellow-bronze. (2). Plants of the seedling flower two
weeks later in the season than those of the female parent.
Plants of the new cultivar 'Zanmuzest' differ from plants of
the male parent in ray-floret color; the seedling have bronze
colored ray-florets, while the male parent has dark bronze
colored ray-florets.

The new and distinct cultivar was discovered and selected
as a flowering plant by Henricus Cornelius Maria Jacobs on a
cultivated field in Rijsenhout, The Netherlands in 2009. The
first act of asexual production of 'Zanmuzest' was accom-
plished when vegetative cuttings from the initial selection in
2009 were propagated further in a controlled environment in

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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 16 weeks) is shown in the accom-
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 25 in
2014, receiving drip irrigation. The natural blooming date of
this crop was September 22. The average height of the plants
was 30-35 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 bronze ray florets
blooming for a period of about 4 to 5 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmuzest' is 'Zanmu-
tomic' (U.S. Plant Pat. No. 21,183). When 'Zanmutomic' and
'Zanmuzest' are being compared the following difference is
noticed: natural season flowering date. Plants of 'Zanmutomic'
flower earlier in the season than those of 'Zanmuzest'.

The following is a description of the plant and character-
istics that distinguish 'Zanmuzest' as a new and distinct vari-
ety.

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.

TABLE 1	
Botanical Description of <i>Chrysanthemum</i> × <i>morifolium</i> Ramat. ‘Zanmuzest’	
Bud	
Size:	Small; cross-section 0.7-1 mm, height 5-7 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191A
Phyllaries	
Number:	24, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green 139B Lower side: Greyed-green 191A
Length and width:	4-5 mm; 1.5 mm
Texture:	Pubescent
Inflorescences	
Type:	Double
Height:	1.8 cm
Diameter:	5 cm
Peduncle length:	4.5-7 cm
Peduncle color:	Greyed-green 191B
Peduncle diameter:	1.5 mm
Peduncle texture:	Pubescent
Number per branch:	About. 5-7 inflorescences
Duration of flowering:	about 4 to 5 weeks
Seeds:	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.5 mm
Fragrance:	Faint chrysanthemum odor
Color inflorescences	
Center of inflorescence (disc florets):	Immature stage: Greyed-orange 172A; Mature stage: Green-yellow 1B
Color of upper side of ray florets:	Yellow 4A at base to Greyed-Orange 171A at apex
Color of lower side of ray florets:	Greyed-Orange 162C at base to Greyed-Orange 173C at tip
Tonality from distance:	A garden mum with bronze blooms
Color of ray florets after aging of the plant:	Greyed-orange 171D
Ray florets	
Texture:	Upper and lower side smooth
Number:	130-140
Shape:	elliptic
Apex:	Pointed to dentate
Base:	Attenuate
Cross-section:	Flat
Longitudinal axis:	Straight
Length of corolla tube:	2-3 mm
Ray floret margin:	Entire
Ray floret length:	1.2-2.5 cm
Ray floret width:	2-6 mm
Ratio length/width:	Medium
Disc florets	
Disc diameter:	1-2 mm
Distribution of disc florets:	Few, only visible in mature stage of inflorescence
Shape:	Funnels shaped
Color:	Yellow-Green 145C at base to Green-Yellow 1B at apex
Length:	3 mm
Diameter:	1 mm

TABLE 1-continued	
Botanical Description of <i>Chrysanthemum</i> × <i>morifolium</i> Ramat. ‘Zanmuzest’	
5	Receptacle
	Color: Yellow-green 145D
	Shape: Domed raised
	Height: 4 mm
	Diameter: 2.8 mm
10	Reproductive Organs
	Androecium: Present on only disc florets
	Stamen length: 3 mm
	Stamen color: Yellow-green 144A
	Anther color: Yellow 2A
15	Pollen: Scarce
	Pollen color: Yellow 12A
	Gynoecium: Present on both ray and disc florets
	Style color: Yellow-green 154C
	Style length: 4 mm
	Stigma color: Yellow 7A
20	Stigma width: 1 mm
	Ovary: Enclosed in calyx
	Plant
	Form: Grown as a spray type pot mum, outdoor raised and mounded
	Growth habit: Spherical shape
25	Growth rate: Vigorous
	Height: 30-35 cm
	Width: 60-65 cm
	Stem color: Greyed-brown 199A
	Stem strength: Not strong
	Stem brittleness: Brittle
30	Stem anthocyanin coloration: absent
	Internode length: 1-2.5 cm
	Length of lateral branch: From top to bottom 21-23 cm
	Lateral branch color: Green 138 A
	Lateral branch, attachment: Weak
	Lateral branch diameter: 2 mm
35	Branching (average number of lateral branches): Prolific with 8 breaks after pinching
	Natural season blooming date: September 22 (week 39)
	Foliage
	Leaf color: Upper side: Green 137A Lower side: Green 137B
40	Color midvein: Upper side: Yellow-green 147D Lower side: Yellow-green 148D
	Size: Small; length 3-6.5 cm, width 1.7-3 cm
	Quantity (number per lateral branches): 10-12
	Shape: Elliptic
45	Texture upper side: Sparsely pubescent
	Texture under side: Pubescent
	Venation arrangement: Pinnate
	Shape of margin: Serrated
	Shape of base of sinus between lateral lobes: Rounded
50	Margin of sinus between lateral lobes: Diverging
	Shape of base: Truncate to attenuate
	Apex: Mucronulate
	Petiole length: 0.8-1.5 cm
	Petiole diameter: 2 mm
55	Petiole color: Yellow-green 147D
TABLE 2	
Differences with the comparison variety, when grown under identical conditions	
	‘Zanmuzest’
	‘Zanmutomic’
	Natural season flowering date
	Week 39
	Week 37
65	

I claim:
1. A new and distinct *chrysanthemum* plant named ‘Zan-
muzest’ as described and illustrated.

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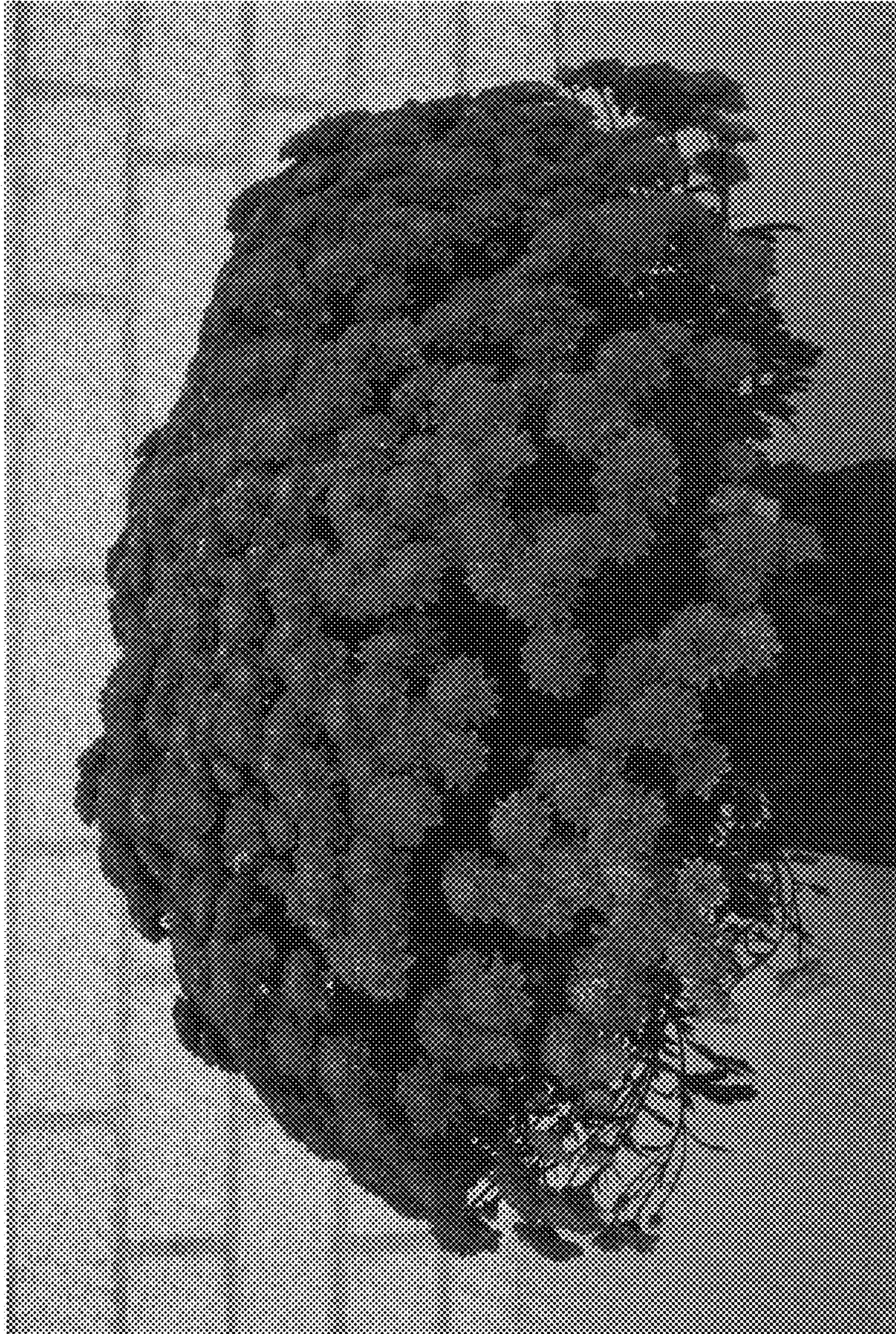


FIG. 1

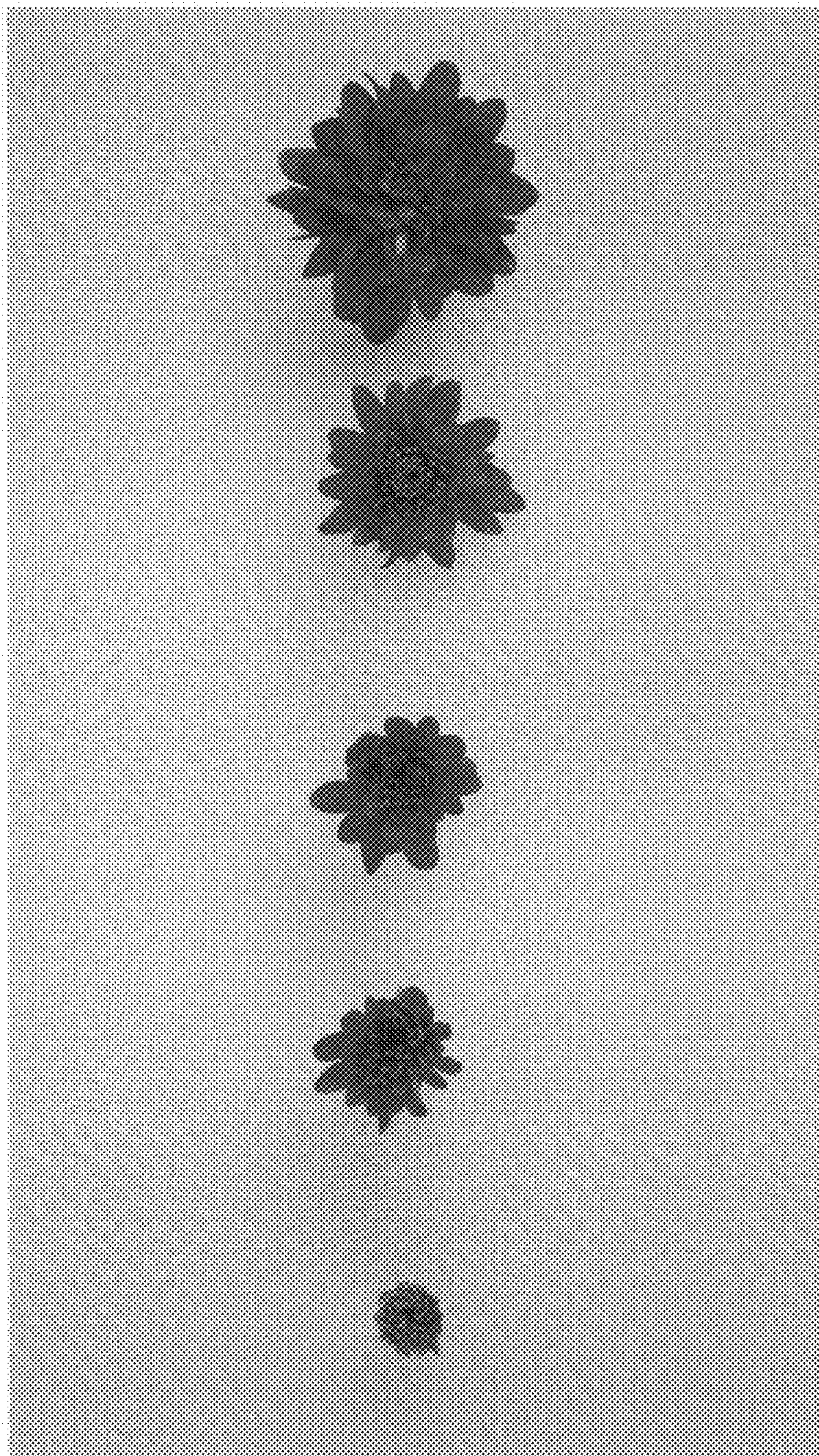


FIG. 2

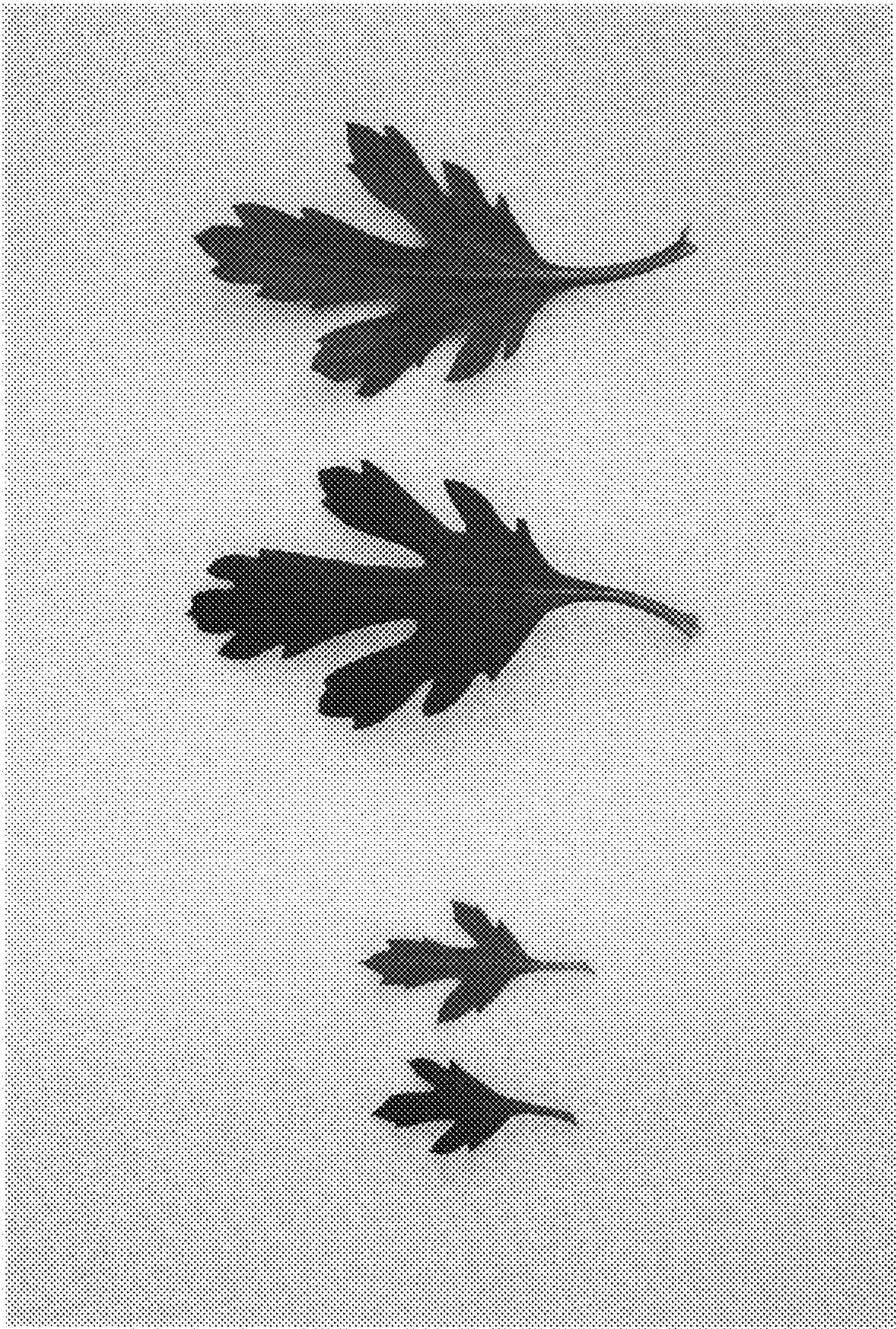


FIG. 3