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

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

(65) **Prior Publication Data**  
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(50) Latin Name: *Chrysanthemum*×*morifolium* Ramat.  
Varietal Denomination: **Zanmuradiant**

(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, 293  
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 'Zanmuradiant' character-  
ized by its large sized blooms with red-purple ray florets and  
prolific branching; natural season flowering date September  
12 (week 37); blooming for a period of 4 weeks.

(21) Appl. No.: **13/694,700**

**3 Drawing Sheets**

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

**1**

**2**

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

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

Cultivar denomination: 'Zanmuradiant'.

**BACKGROUND OF THE INVENTION**

**DESCRIPTION OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of *Chrysanthemum* plant, botanically known as *Chrysante-*  
*mum*×*morifolium* Ramat., commercially known as a garden  
mum, and hereinafter referred to by the cultivar denomination  
'Zanmuradiant'. 'Zanmuradiant' 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 12 (week 37), blooming for a period of 4  
weeks. 'Zanmuradiant' is a seedling resulting from a cross of  
unregistered parent plants.

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 22 in  
2011. The natural blooming date of this crop was September  
12 (week 37). The average height of the plants was 30 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 large sized  
blooms with red-purple ray florets blooming for a period of 4  
weeks.

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 'Zanmuradiant' was accom-  
plished when vegetative cuttings from the initial selection in  
2008 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.

From the cultivars known to inventor the most similar  
existing cultivar in comparison to 'Zanmuradiant' is  
'Manakin' (U.S. Plant Pat. No. 11,521). When 'Manakin' and  
'Zanmuradiant' are being compared the following difference  
is noticed: The differences of 'Manakin' and 'Zanmuradiant'  
are (1) Bloom size. And (2) Color ray-florets. (1) The blooms  
of 'Manakin' are smaller than those of 'Zanmuradiant'. (2)  
The ray-florets of 'Manakin' are less purple than those of  
'Zanmuradiant'

**BRIEF DESCRIPTION OF THE DRAWINGS**

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

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.

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.

FIG. 1 shows a plant of the cultivar in full bloom.

FIG. 2 shows the various stages of bloom of the new cul-  
tivar.

TABLE 1

Botanical Description of <i>Chrysanthemum xmorifolium</i> Ramat. 'Zanmuradiant'	
<b>Bud</b>	
Size:	Small; cross-section 5 mm, height 5 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191A
<b>Phyllaries</b>	
Number:	25, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green N138B Lower side: Green 139B
Length and width:	5 mm; 2.5 mm
Texture:	Pubescent
<b>Inflorescences</b>	
Type:	Double
Height:	2.5 cm
Diameter:	5.5-6 cm
Peduncle length:	5-8 cm
Peduncle color:	Green 138B
Peduncle diameter:	1.5 mm
Peduncle texture:	Pubescent
Number per branch:	Approx. 8-10 inflorescences
Duration of flowering:	4 weeks
Seeds:	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.5 mm
Fragrance:	Faint <i>chrysanthemum</i> odor
<b>Color inflorescences</b>	
Center of inflorescence:	Immature stage: Red-purple 59A; Mature stage: Red-purple 59A
Color of upper side of ray florets:	Red-purple 59B
Color of lower side of ray florets:	Greyed-red 178C
Tonality from distance:	A garden mum with red purple blooms
Color of ray florets after aging of the plant:	Greyed-purple 187A
<b>Ray florets</b>	
Texture:	Upper and lower side smooth
Number:	220-230
Shape:	Elliptic
Apex:	Dentate
Base:	Attenuate
Cross-section:	Flat
Longitudinal axis:	Straight
Length of corolla tube:	4-5 mm
Ray floret margin:	Entire
Ray floret length:	1.6-2.8 cm
Ray floret width:	4 mm
Ratio length/width:	High
Disc florets	Absent
<b>Receptacle</b>	
Color:	Yellow-green 145D
Shape:	Conical raised
Height:	5 mm
Diameter:	5 mm
<b>Reproductive Organs</b>	
Androecium:	Absent
Gynoecium:	Present in ray florets
Style color:	Yellow-green 154C
Style length:	3 mm

TABLE 1-continued

Botanical Description of <i>Chrysanthemum xmorifolium</i> Ramat. 'Zanmuradiant'	
5	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 Spherical shape Growth habit: Spherical shape Growth rate: Medium to high Height: 30 cm Width: 45-50 cm Stem color: Greyed-brown 199A
15	Stem strength: Not strong Stem brittleness: Brittle Stem anthocyanin coloration: streaks of Greyed-purple 187C Internode length: 1.5-2.5 cm Length of lateral branch: From top to bottom 18-20 cm Lateral branch color: Green 137 C
20	Lateral branch, attachment: Brittle Lateral branch diameter: 3 mm Branching (average number of lateral branches): Prolific with 7-9 breaks after pinching
25	Natural season: September 12 (week 37-40) blooming date: Foliage
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 cm, width 2-3.5 cm Quantity (number per lateral branches): 14-16 Shape: Broadly elliptic Texture upper side: Sparsely pubescent Texture under side: Pubescent
35	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: Attenuate to truncate Apex: Mucronulate Petiole length: 0.2-0.5 cm Petiole diameter: 1-1.5 mm Petiole color: Yellow-green 147D
45	

TABLE 2

Differences with the comparison variety (when grown under identical conditions).		
	'Zanmuradiant'	'Manakin'
50		
	Inflorescence diameter	5.5-6 cm
	Color upper surface ray-florets	Red-purple 59B
55		3.5 cm Red 46A

## I claim:

1. A new and distinct *Chrysanthemum* plant named 'Zanmuradiant' as described and illustrated.

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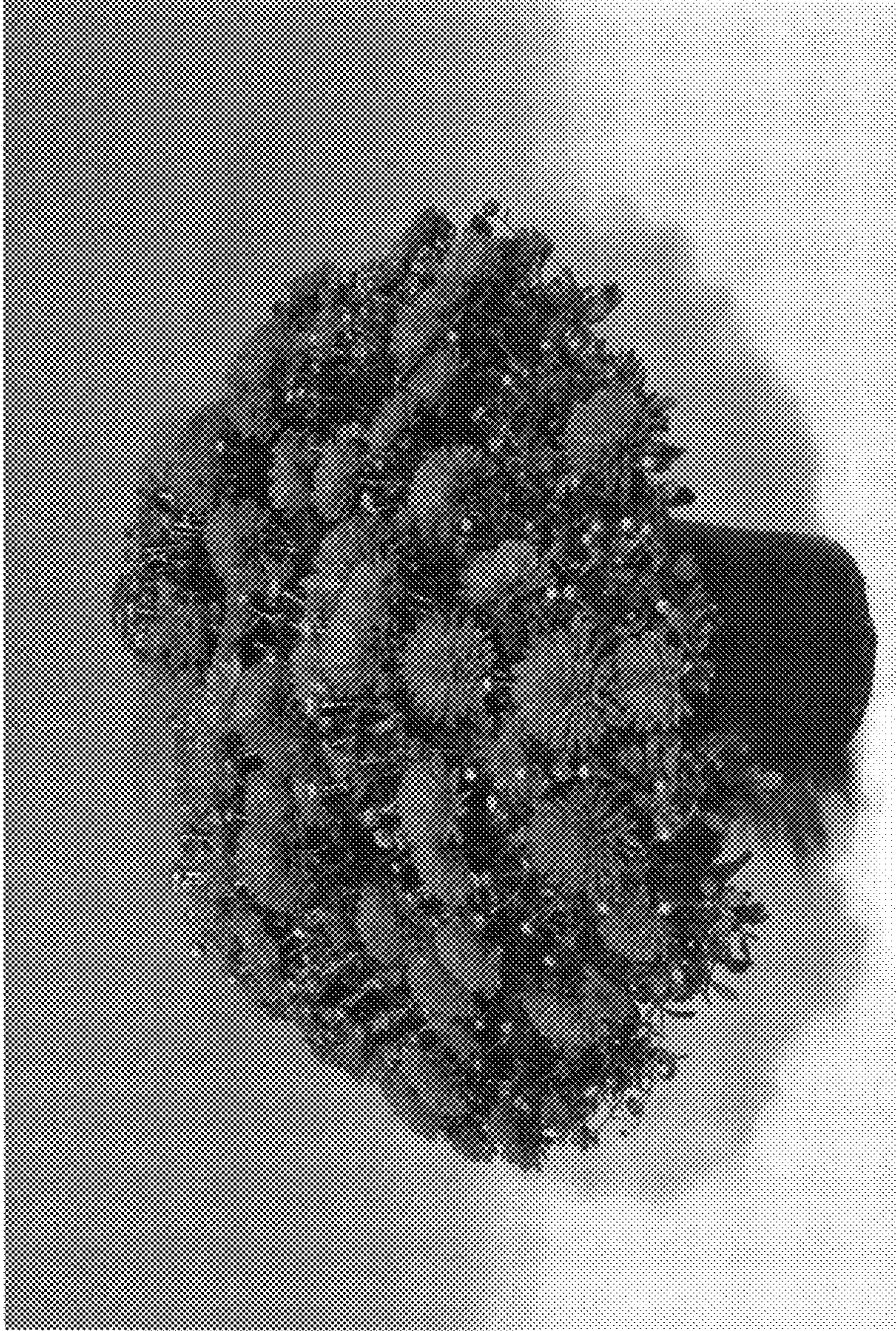


FIG. 1

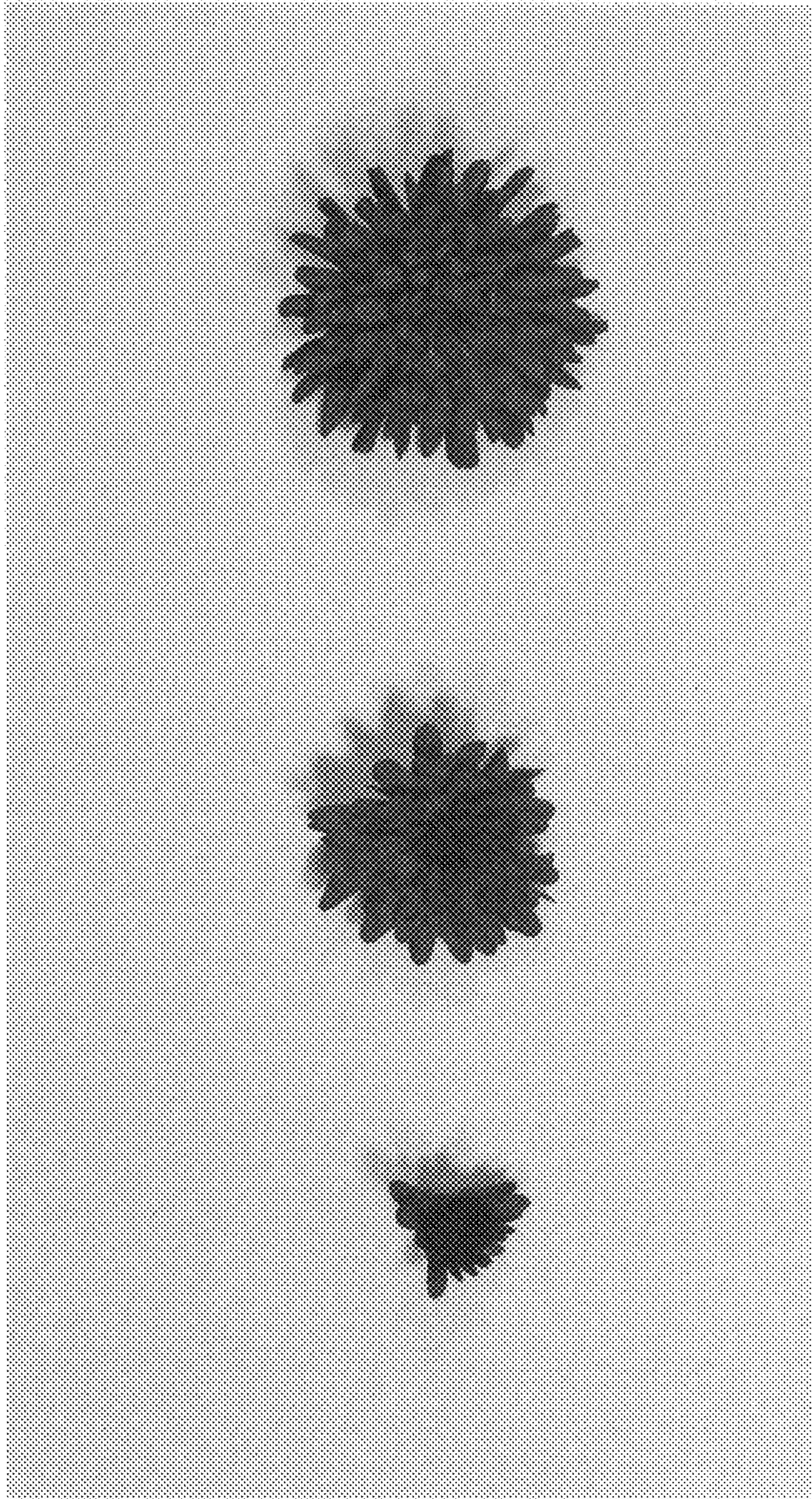


FIG. 2

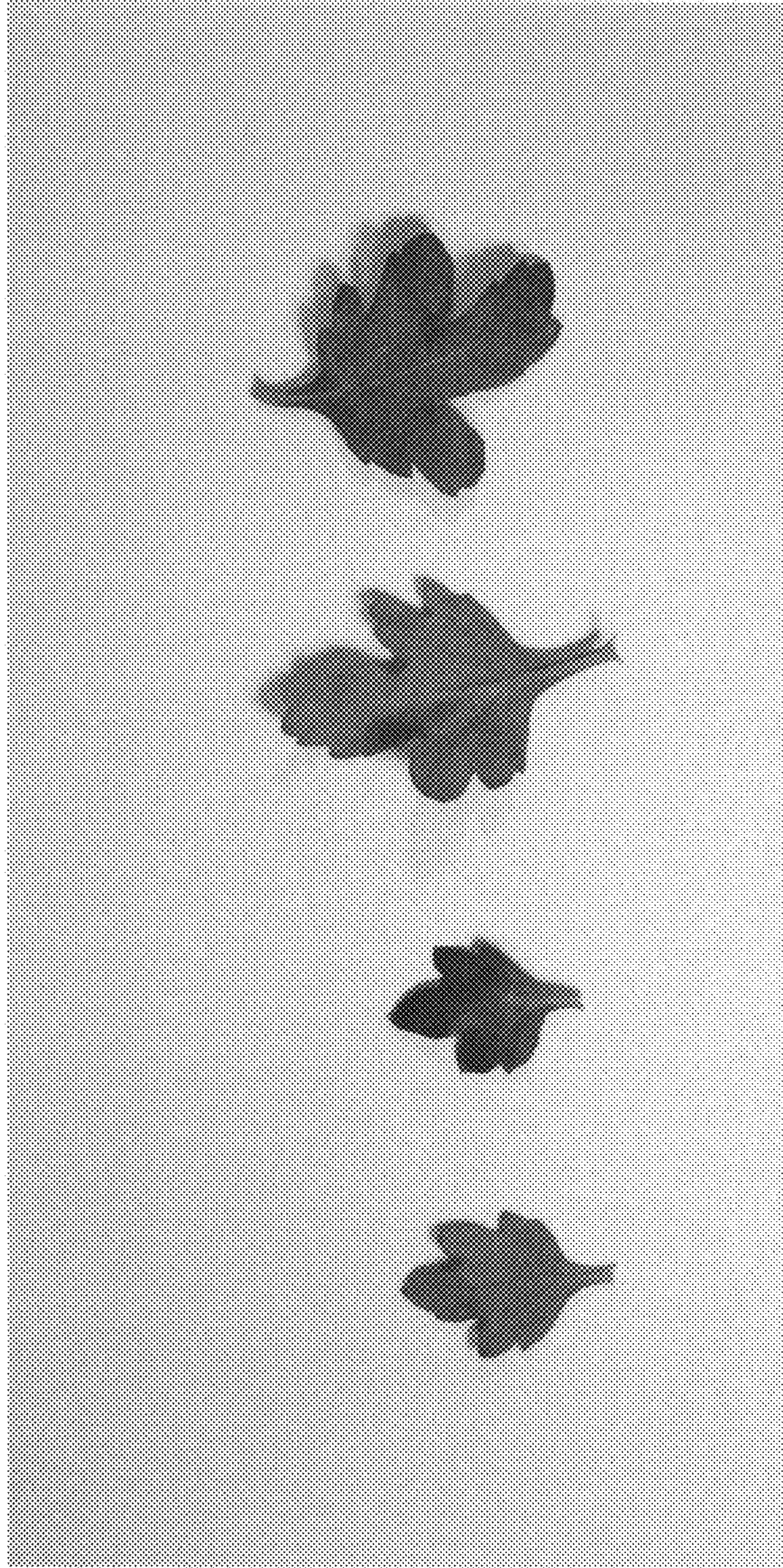


FIG. 3