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

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

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

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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 63 days.

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

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

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

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmuriot' characterized by  
its medium sized blooms with yellow ray florets and prolific  
branching; natural season flowering date October 5; bloom-  
ing for a period of 5 weeks.

**3 Drawing Sheets**

**1**

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

Cultivar denomination: 'Zanmuriot'.

**RELATED CULTIVARS**

This new plant cultivar 'Zanmuriot' 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 *Chrysanthe-*  
*mum*×*morifolium* Ramat., commercially known as a garden  
mum, and hereinafter referred to by the cultivar denomina-  
tion 'Zanmuriot'. 'Zanmuriot' 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 October 5, blooming for a period of 5 weeks.  
'Zanmuriot' is a seedling resulting from a cross of the female  
parent 33114 (unpatented) with the male parent 37.9402  
(unpatented). Plants of the new cultivar 'Zanmuriot' differ  
from plants of the female parent in the following character-  
istics. (1). Plant vigor—Plants of the seedling are less  
vigorous than those of the female parent. (2). Natural season  
flowering date—Plants of the seedling flower one week  
earlier than those of the female parents. Plants of the new  
cultivar 'Zanmuriot' differ from plants of the male parent in  
the following characteristic. (1). Plant shape—Plants of the  
seedling are more ball-shaped than those of the male parent.

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 May  
2011. The first act of asexual production of 'Zanmuriot' was  
accomplished in July 2011 when vegetative cuttings from  
the initial selection were propagated further in a controlled  
environment in Rijsenhout, the Netherlands. In summer,  
about 6-8 days are needed to initiate roots in cuttings of the  
new cultivar, after another 5 days rooted plants are formed.  
The new cultivar has been found to retain its distinctive  
characteristics through successive propagations.

**2**

**BRIEF DESCRIPTION OF THE DRAWINGS**

The present invention of a new and distinct variety of  
*chrysanthemum* (of about 20 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  
cultivar.

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

**DESCRIPTION OF THE INVENTION**

The observations and measurements were gathered from  
plants in the period of 18 to 23 weeks of age grown outdoor  
in Rijsenhout, the Netherlands, under natural day length and  
temperature and planted in week 23 in 2015, receiving drip  
irrigation. The natural blooming date of this crop was  
October 5 (week 41). 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 medium sized blooms with yellow ray florets  
blooming for a period of 5 weeks.

From the cultivars known to the inventor the most similar  
existing cultivar in comparison to 'Zanmuriot' is 'Zanmu-  
sundance' (U.S. Plant Pat. No. 21,163). When 'Zanmusun-  
dance' and 'Zanmuriot' are being compared the following  
differences are noticed: (1). Inflorescence size. And (2).  
Ray-floret color. (1). Inflorescences of 'Zanmuriot' are  
larger than those of 'Zanmusundance'. (2). Ray-florets of  
'Zanmuriot' are more deeply yellow colored than those of  
'Zanmusundance'.

The following is a description of the plant and character-  
istics that distinguish 'Zanmuriot' 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  
description is: The Royal Horticultural Society Colour  
Chart, edition 2001.

TABLE 1

Botanical Description of <i>Chrysanthemum × morifolium</i> Ramat. 'Zanmuriot'	
<b>Bud</b>	
Size:	Small; cross-section 4 mm, height 3 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 138B
<b>Phyllaries</b>	
Number:	21-24, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green 137C Lower side: Green 138B
Length and width	4 mm; 1 mm
Texture:	Pubescent
<b>Inflorescences</b>	
Type:	Double
Height:	1 cm
Diameter:	4.5 cm
Peduncle length:	6-8 cm
Peduncle color:	Green 137B
Peduncle diameter:	1 mm
Peduncle texture:	Pubescent
Number per branch:	About. 5 inflorescences
Duration of flowering:	5 weeks
Fragrance:	Faint <i>chrysanthemum</i> odor
<b>Color inflorescences</b>	
Center of inflorescence:	Yellow-orange 21B
Color of upper side of ray florets:	Outer rows: Yellow 13A; Inner Rows: Yellow-orange 21B
Color of lower side of ray florets:	Outer rows: Yellow 11A; Inner rows: Yellow-orange 21B
Tonality from distance:	A garden mum with yellow blooms and a dark yellow center
Color of ray florets after aging of the plant:	Yellow 13A
<b>Ray florets</b>	
Number of types:	One
Type:	Ligulate
Texture:	Upper and lower side smooth
Number:	170-180
Shape:	Outer rows: Elliptic; Inner rows: Narrowly elliptic
Apex:	Outer rows: Dentate; Inner rows: Pointed
Base:	Attenuate
Cross-section:	Outer rows: Flat; Inner rows: Convex
Longitudinal axis:	Outer rows: Straight; Inner rows: Incurving
Length of corolla tube:	1.5-2 mm
Diameter corolla tube:	1 mm
Ray floret margin:	Entire
Ray floret length:	Outer rows: 1-2 cm
Ray-floret width:	Outer rows: 1.5-5 mm
Disc florets	Absent
<b>Receptacle</b>	
Color:	Yellow-green 145D
Shape:	Domed raised
Height:	3 mm
Diameter:	2 mm
<b>Reproductive Organs</b>	
Androecium:	Absent
Pollen:	Absent
Gynoecium:	Present on ray florets
Style color:	Yellow-green 154C
Style length:	4 mm

TABLE 1-continued

Botanical Description of <i>Chrysanthemum × morifolium</i> Ramat. 'Zanmuriot'	
5	Stigma color: Yellow 7A
	Stigma width: 1 mm
	Ovary: Enclosed in calyx
	Ovary color: Yellow-green 149D
	Seed set: Not determined to date.
<b>Plant</b>	
10	Type: Bushy
	Growth habit: Spherical shape
	Growth rate: Medium
	Height: 30 cm
	Width: 45 cm
15	Stem color: Greyed-brown 199A
	Stem strength: Not strong
	Stem brittleness: Brittle
	Stem anthocyanin coloration: Absent
	Internode length: 0.3-1 cm
	Length of lateral branch: From top to bottom 18-20 cm
	Lateral branch color: Green 138B
20	Lateral branch, attachment: Weak
	Lateral branch diameter: 2-3 mm
	Lateral branch, texture: Pubescent with ribs
	Branching: Dense with 10 breaks after pinching
	(average number of lateral branches):
	Natural season blooming date: October 5 (week 41) in Rijsenhout, the Netherlands
25	Roots-habits: Fine, freely branching
	Roots-color: White 155A
<b>Foliage</b>	
	Glossiness: Leaf upper side: weak Leaf lower side: very weak
30	Leaf color: Upper side: Green 137B Lower side: Green 138A
	Color midvein: Upper side: Yellow-green 147D Lower side: Yellow-green 148D
35	Size: Small; length 4-5.5 cm, width 2-2.5 cm
	Quantity (number per lateral branches): 8-10
	Shape: Elliptic
	Texture upper side: Sparsely pubescent
	Texture under side: Pubescent
40	Venation arrangement: Pinnate
	Shape of margin: Serrated
	Shape of base of sinus between lateral lobes: Rounded
	Margin of sinus between lateral lobes: Diverging
	Shape of base: Acute to truncate
45	Apex: Mucronulate
	Petiole strength: Weak
	Petiole attitude: Moderately upwards
	Petiole length: 0.5-1.2 cm
	Petiole diameter: 2 mm
	Petiole color: Yellow-green 147D
50	Stipule: Occasionally present, very small

TABLE 2

Differences with the comparison variety, when grown under identical conditions			
	'Zanmuriot'	'Zanmusundance'	
55	Inflorescence size	4.5 cm	4 cm
60	Ray-floret color	Yellow 13A	Yellow 9A

I claim:

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

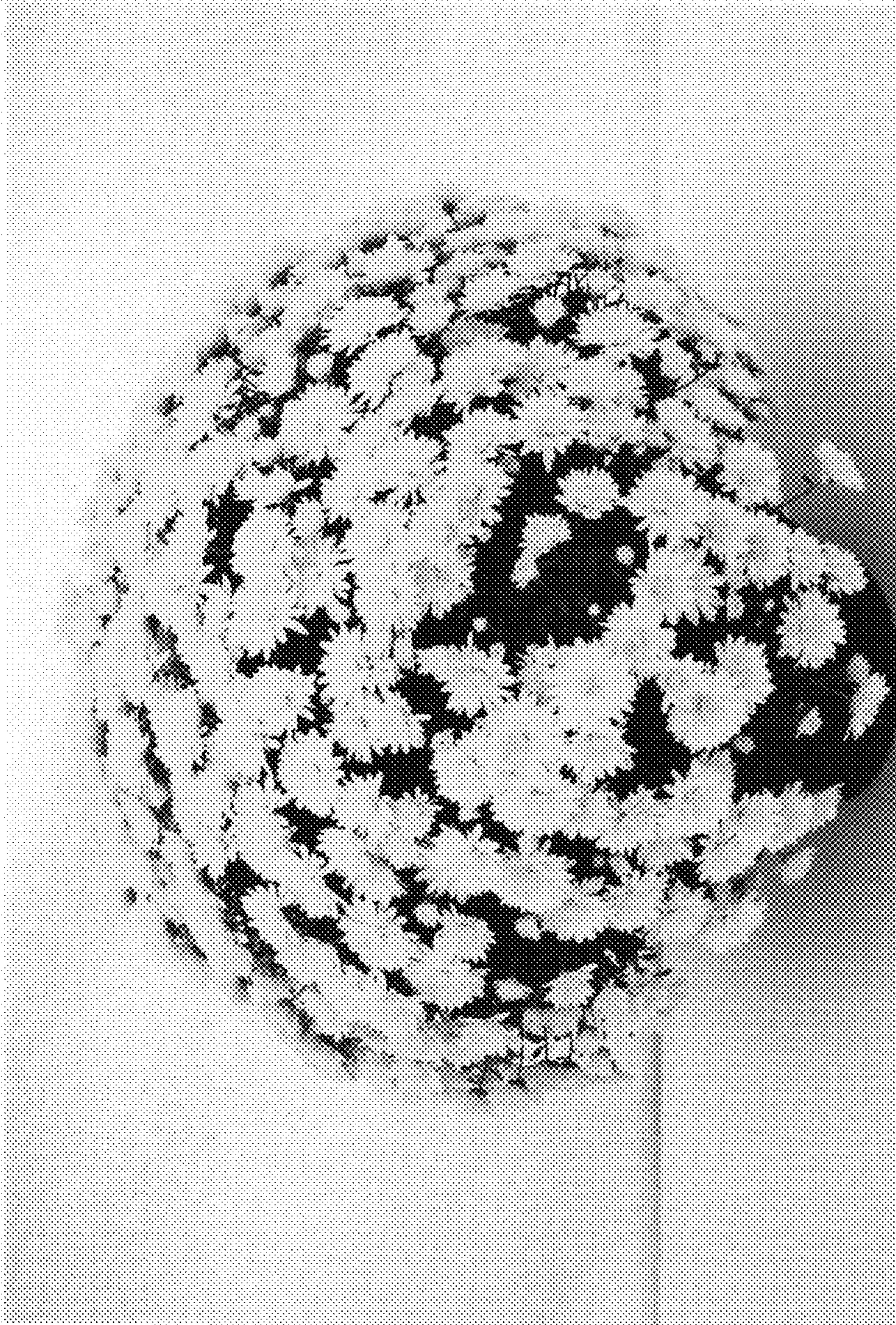


FIG. 1



**FIG. 2**

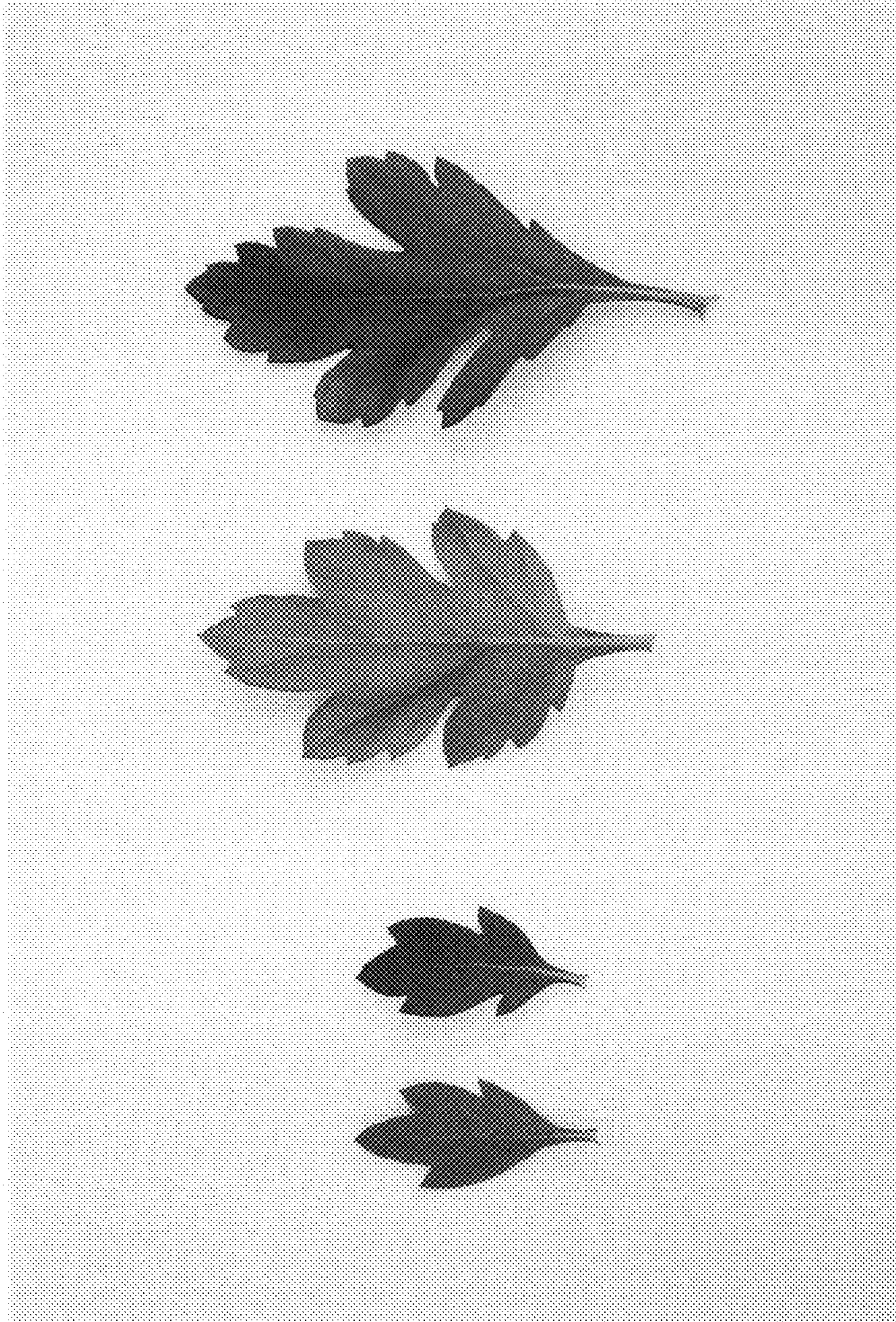


FIG. 3