

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

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

(65) **Prior Publication Data**
US 2016/0192565 P1 Jun. 30, 2016

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

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

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

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(58) **Field of Classification Search**
USPC Plt./289
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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 3 days.

(57) **ABSTRACT**
A *chrysanthemum* plant named 'Zanmucup' characterized by
its medium sized blooms with intense yellow ray florets and
prolific branching; natural season flowering date September
22; blooming for a period of 4 weeks.

(21) Appl. No.: **14/544,362**

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

3 Drawing Sheets

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Botanical designation: *Chrysanthemum×morifolium*
Ramat.

Cultivar denomination: 'Zanmucup'.

RELATED CULTIVARS

This new plant cultivar 'Zanmucup' 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
'Zanmucup'. 'Zanmucup' 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 5 weeks.
'Zanmucup' is a seedling resulting from a cross of the female
parent 21570 with the male parent 24605. Plants of the new
cultivar 'Zanmucup' differ from plants of the female parent in
the natural season flowering date; plants of the seedling
flower one week earlier than those of the female parent. Plants
of the seedling differ from plants of the male parent in inflo-
rescence type; inflorescences of the seedling are double,
while those of the male parent are semi-double.

The new and distinct cultivar was discovered and selected
as a flowering plant by Henricus Cornelius Maria Jacobs on a
cultivated field in Rijnsenhout, The Netherlands in 2010. The
first act of asexual production of 'Zanmucup' was accom-
plished when vegetative cuttings from the initial selection in
2010 were propagated further in a controlled environment in
Rijnsenhout, The Netherlands. The new cultivar has been
found to retain its distinctive characteristics through succes-
sive propagations.

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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 Rijnsenhout, 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 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 intense yellow ray flo-
rets blooming for a period of 4 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmucup' is 'Zanmus-
tone' (U.S. Plant Pat. No. 22,619). When 'Zanmustone' and
'Zanmucup' are being compared the following difference is
noticed: The differences of 'Zanmustone' and 'Zanmucup'
are (1) Color ray florets. And (2) Leaf color. (1) Ray-florets of
'Zanmucup' are more deep yellow than those of 'Zanmus-
tone'. (2) Leaves of 'Zanmustone' are more greyish green
than those of 'Zanmucup'.

The following is a description of the plant and character-
istics that distinguish 'Zanmucup' 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. ‘Zanmucup’	
Bud	
Size:	Small; cross-section 4 mm, height 3 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: Greyed-green 189A Lower side: Green 136A
Length and width:	4 mm; 3 mm
Texture:	Pubescent
Inflorescences	
Type:	Double
Height:	2 cm
Diameter:	4 cm
Peduncle length:	4-6.5 cm
Peduncle color:	Green 136C
Peduncle diameter:	2 mm
Peduncle texture:	Pubescent
Number per branch:	About 5-6 .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 chrysanthemum odor
Color inflorescences	
Center of inflorescence:	Immature stage: Yellow-orange 17A.; Mature stage: Yellow-orange 17A
Color of upper side of ray florets:	Yellow 12a
Color of lower side of ray florets:	Yellow 8A
Tonality from distance:	A garden mum with yellow blooms and a dark yellow center
Color of ray florets after aging of the plant:	Yellow-orange 15A
Ray florets	
Texture:	Upper and lower side smooth
Number:	160
Shape:	elliptic
Apex:	dentate
Base:	acute
Cross-section:	flat
Longitudinal axis:	straight
Length of corolla tube:	3-4. mm
Ray floret margin:	Entire
Ray floret length:	1-2 cm
Ray floret width:	2-5 mm
Ratio length/width:	medium
Disc florets	absent
Receptacle	
Color:	Yellow-green 145D
Shape:	Domed raised

TABLE 1-continued

Botanical Description of <i>Chrysanthemum</i> × <i>morifolium</i> Ramat. ‘Zanmucup’	
5	Height: 3 mm Diameter: 3 mm Reproductive Organs
10	Androecium: absent Gynoecium: Present on ray florets Style color: Yellow-green 154C Style length: 4 mm Stigma color: Yellow 7A Stigma width: 1 mm Ovary: Enclosed in calyx Plant
15	Form: Grown as a spray type pot mum, outdoor raised and mounded Growth habit: Spherical shape Growth rate: Medium Height: 30 cm Width: 40-45 cm
20	Stem color: Greyed-brown 199A Stem strength: strong Stem brittleness: not brittle Stem anthocyanin coloration: absent Internode length: 1 cm Length of lateral branch: From top to bottom 20-22 cm
25	Lateral branch color: Green 137D Lateral branch, attachment: Weak Lateral branch diameter: 2 mm Branching (average number of lateral branches): Prolific with 8 breaks after pinching Natural season blooming date: September 22 (week 39)
30	Foliage
	Leaf color: Upper side: Green 136B Lower side: Green 138B Color midvein: Upper side: Yellow-green 147D Lower side: Yellow-green 148D
35	Size: Small; length 3-5.5 cm, width 1.5-2.6 cm Quantity (number per lateral branches): 20 Shape: Elliptic 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 Margin of sinus between lateral lobes: Diverging Shape of base: Truncate to asymmetric Apex: Pointed
45	Petiole length: 0.5-1.2 cm Petiole diameter: 2 mm Petiole color: Yellow-green 147D

TABLE 2

Differences with the comparison variety, when grown under identical conditions		
	‘Zanmucup’	‘Zanmustone’
55	Ray floret upperside color	Yellow 12A
	Leaf upperside color	Green 136B
		Yellow 8A
		Green 139A-B

60 I claim:
1. A new and distinct *chrysanthemum* plant named ‘Zanmucup’ as described and illustrated.

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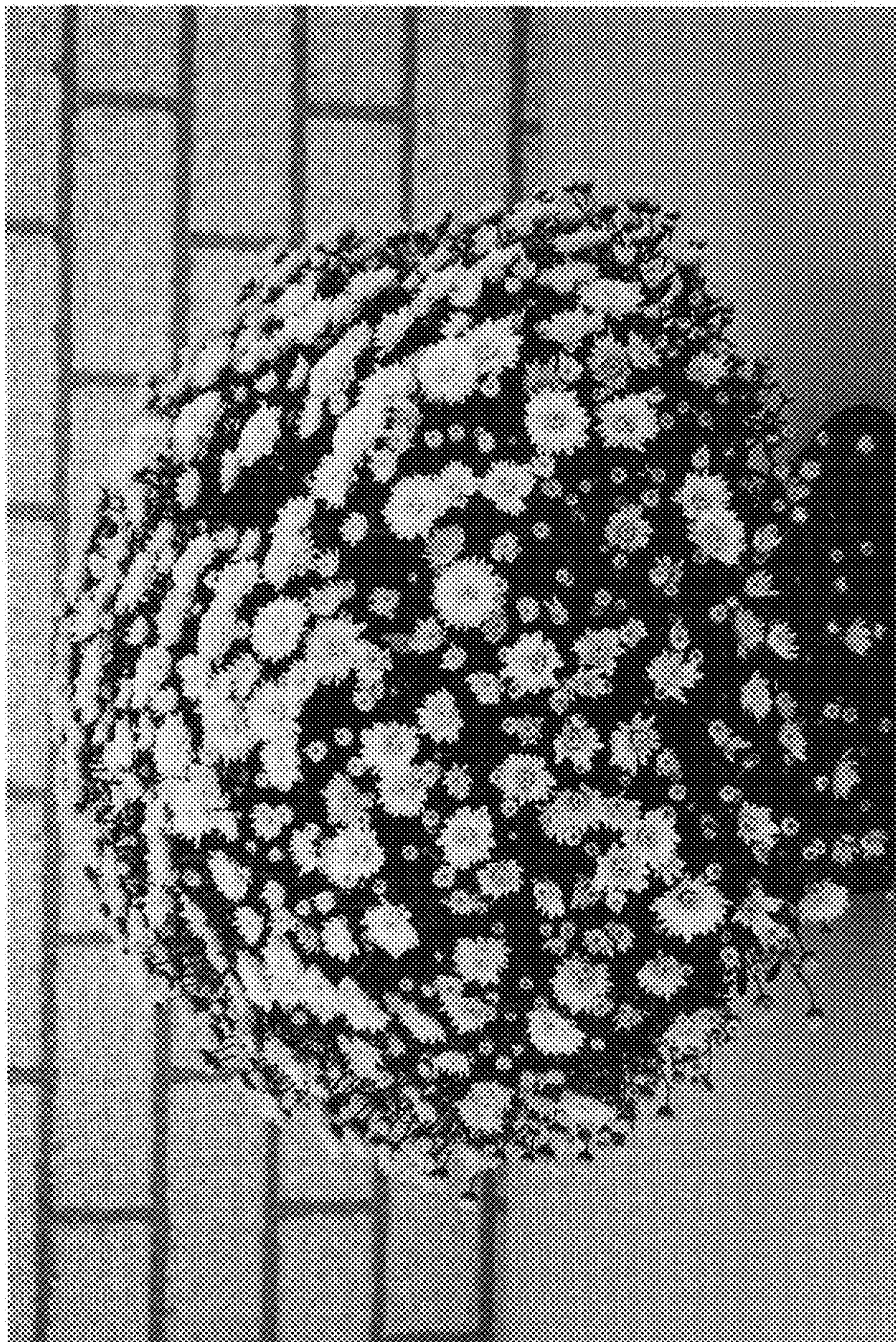


FIG. 1



FIG. 2

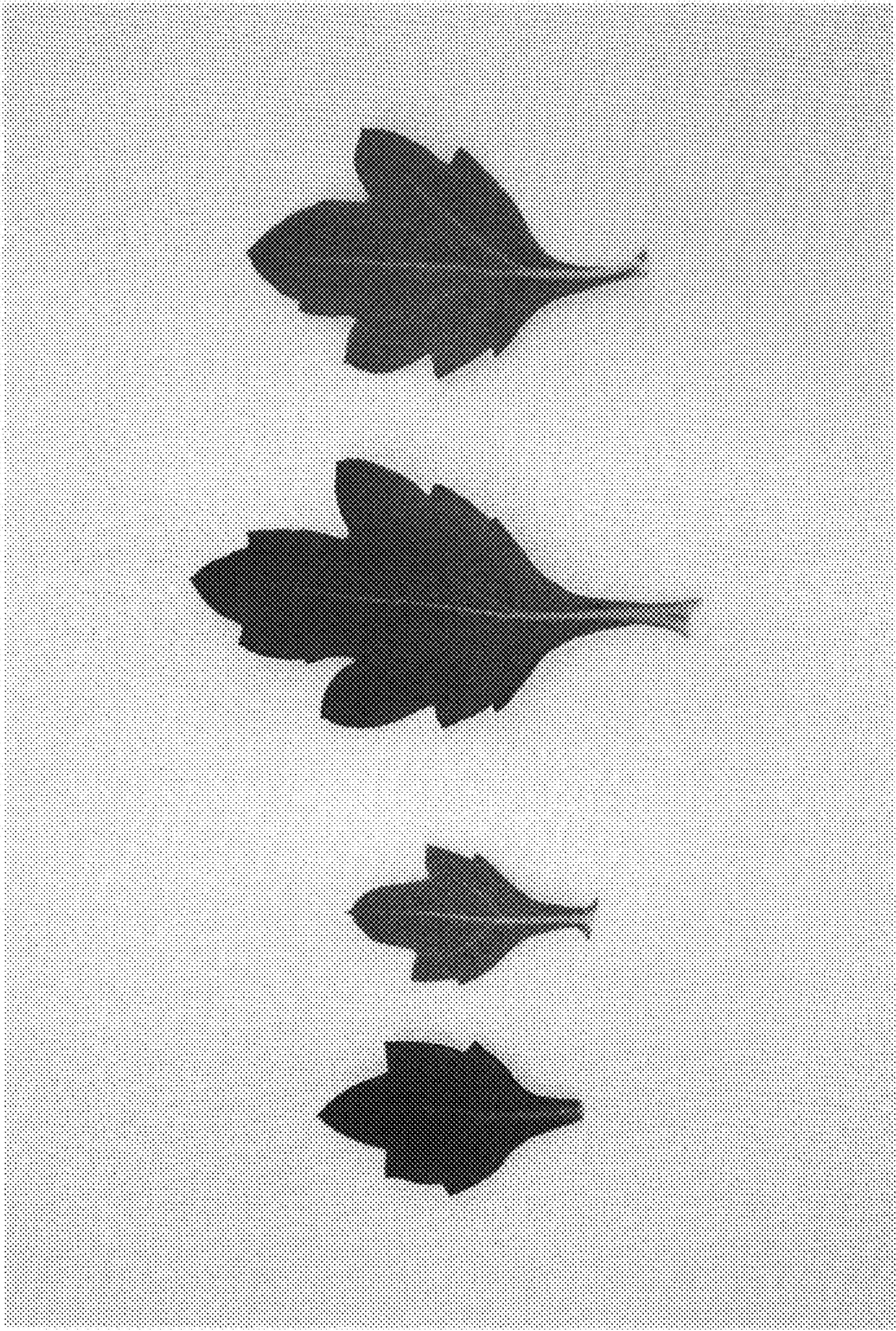


FIG. 3