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

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

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

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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.

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(51) **Int. Cl.**
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(58) **Field of Classification Search** Plt./295
See application file for complete search history.

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmustone' characterized by its medium sized blooms with yellow ray florets and prolific branching; natural season flower date August 17 (week 34); blooming for a period of 5 weeks.

3 Drawing Sheets

Botanical designation: *Chrysanthemum×morifolium* Ramat.

Cultivar denomination: 'Zanmustone'.

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 'Zanmustone'. 'Zanmustone' 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 August 17 (week 34), blooming for a period of 5 weeks. 'Zanmustone' is a seedling resulting from a cross of the female parent id 21570 with an unknown male parent. Plants of the new cultivar 'Zanmustone' differ from plants of the female parent in the natural season flowering date. The plants of the female parent flower at the end of September, while those of the seedling flower in mid-August.

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 2005. The first act of asexual production of 'Zanmustone' was accomplished when vegetative cuttings from the initial selection in 2005 were propagated further in a controlled environment 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, 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 grown out door in Rijsenhout, The Netherlands under natural day length and temperature and planted in week 23 in 2009. The natural blooming date of this crop was August 17 (week 34). The average height of the plants was 20 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 inventor the most similar existing cultivar in comparison to 'Zanmustone' is 'Zanmugolmine' (U.S. Plant Patent applied). When 'Zanmugolmine' and 'Zanmustone' are being compared the following difference is noticed: The differences of 'Zanmugolmine' and 'Zanmustone' are (1) Color ray-floret. And (2) Plant size. (1) The ray-florets of 'Zaumustone' are more intensely yellow colored than those of 'Zanmugolmine'. (2) The plants of 'Zanmustone' are slightly larger than those of 'Zanmugolmine'.

The following is a description of the plant and characteristics that distinguish 'Zanmustone' as a new and distinct variety.

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 *Chrysanthemum* x*morifolium* Ramat. 'Zanmustone'

Bud	
Size	Small; cross-section 5 mm, height 3 mm
Shape	Round
Texture	Pubescent
Outside Color	Greyed-green 191A
Phyllaries	
Number	25, arranged in 3 rows
Shape	Elliptic
Apex	Acute
Base	Truncate
Margin	Entire
Color	Upper surface: Greyed-green 191B
Length and width	7 mm; 2 mm
Texture	Pubescent
Inflorescence	
Type	Double
Height	2.5 cm
Diameter	6 cm
Peduncle length	6 cm
Peduncle color	Greyed-green 191A to B
Peduncle diameter	1.8 mm
Peduncle texture	Pubescent
Number per branch	Approx 11 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
Color	
Center of inflorescence (disc florets)	Immature stage: Yellow 13B Mature stage: Yellow 7A
Color of upper surface of the ray-florets	Yellow 8A
Color of the lower surface of the ray-florets	Yellow 8B
Tonality from Distance	A garden mum with yellow flowers
Color of the ray-florets after aging of the plant	Yellow 8A
Ray florets	
Texture	Upper and lower surface smooth
Number	Ca 190
Shape	Elliptic
Apex	Rounded
Base	Attenuate
Cross-section	Concave
Longitudinal axis of majority	Straight
Length of corolla tube	0.5-2 cm
Ray-floret margin	Entire
Ray-floret length	2.5-3 cm
Ray-floret width	5-6 mm
Ratio length/width	High
Disc florets	
Disc diameter	2-3 mm
Distribution of disc florets	Few
Shape	Tubular
Color	Yellow-green 145C at base to Green Yellow 1D at top
Length	3 mm
Receptacle	
Color	Yellow-green 145D
Shape	Domed raised
Height	4 mm
Diameter	6 mm

TABLE 1-continued

Botanical Description of *Chrysanthemum* x*morifolium* Ramat. 'Zanmustone'

Reproductive Organs	
Androecium	Present on only disc florets
Stamen length	3 mm
Stamen color	Yellow-green 144A
Anther color	Yellow 6D
Pollen	Present
Pollen color	Yellow 13A
Gynoecium	Present on both ray and disc florets
Style color	Yellow-green 154C
Style Length	3 mm
Stigma color	Yellow 7A
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
Growth rate	Medium
Height	20 cm
Width	30 cm
Stem Color	Greyed-brown 199A
Stem Strength	Medium
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Not observed
Internode length	2.5-3 cm
Length of lateral branch	From top to bottom 15 cm
Lateral branch color	Green 137 C
Lateral branch, attachment	Not brittle
Lateral branch diameter	2 mm
Branching (average number of lateral branches)	Prolific with 8 breaks after pinching
Natural season blooming date	August 17 (week 34)
Foliage	
Leaf color	Upper side: Green 139 A to B Lower side: Greyed-green 191A
Color midvein	Upper side: Yellow-green 147D Lower side: Yellow-green 148D
Size	Small; length 2.5-4 cm, width 1.8-2.5 cm
Quantity (number per lateral branch)	Ca. 16
Shape	Broadly elliptic
Texture upper side	Sparsely pubescent
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the 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	Mucronulate
Petiole length	2-5 mm
Petiole diameter	1.5-2 mm
Petiole color	Yellow-green 147D

TABLE 2

Differences with the comparison variety (when grown side to side)

	"Zanmustone"	'Zanmugolmine'
Color upper surface ray-florets	Yellow 7A	Yellow 8A
Plant height	20 cm	18 cm

I claim:

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

* * * * *

FIG. 1

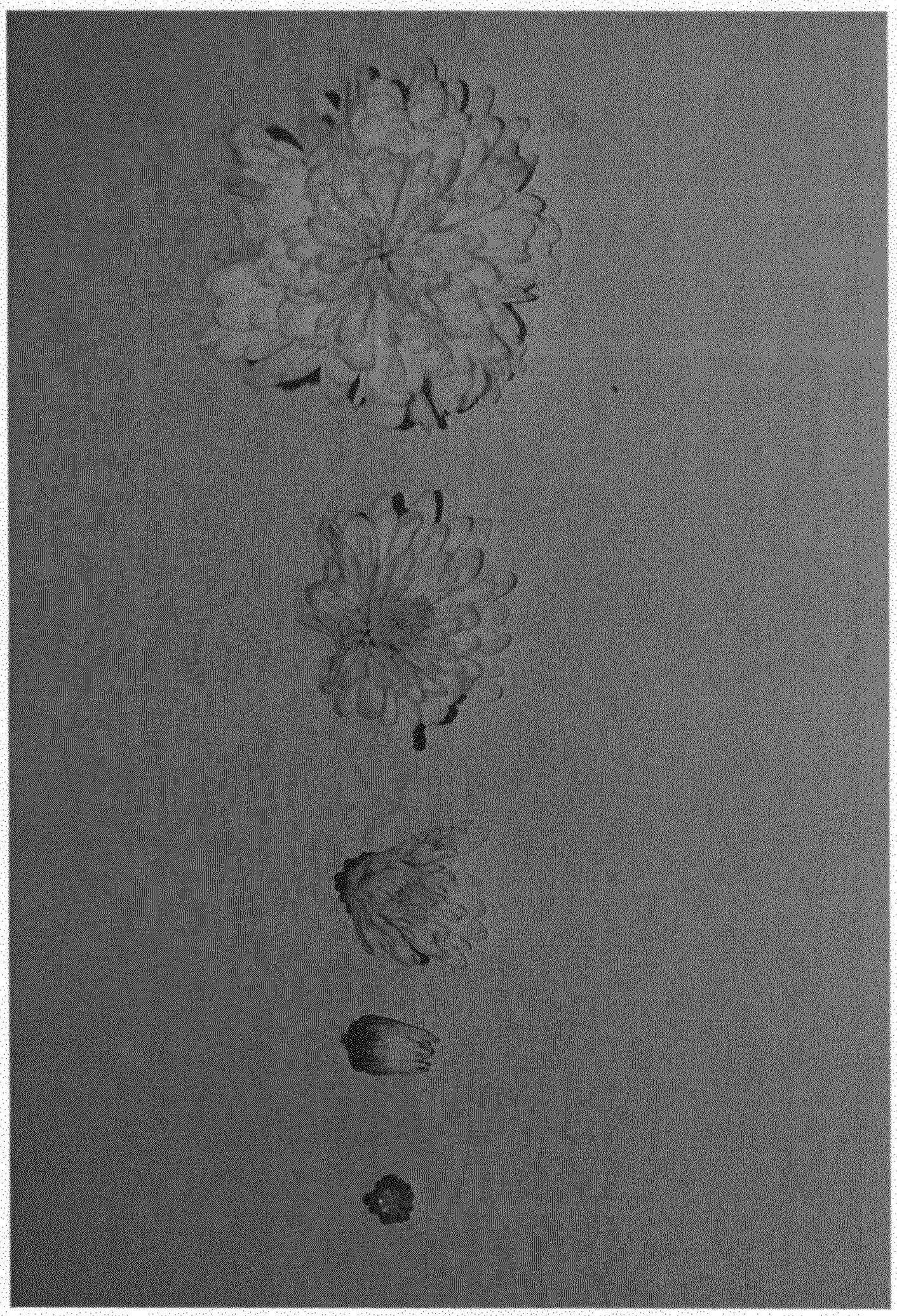

FIG. 2

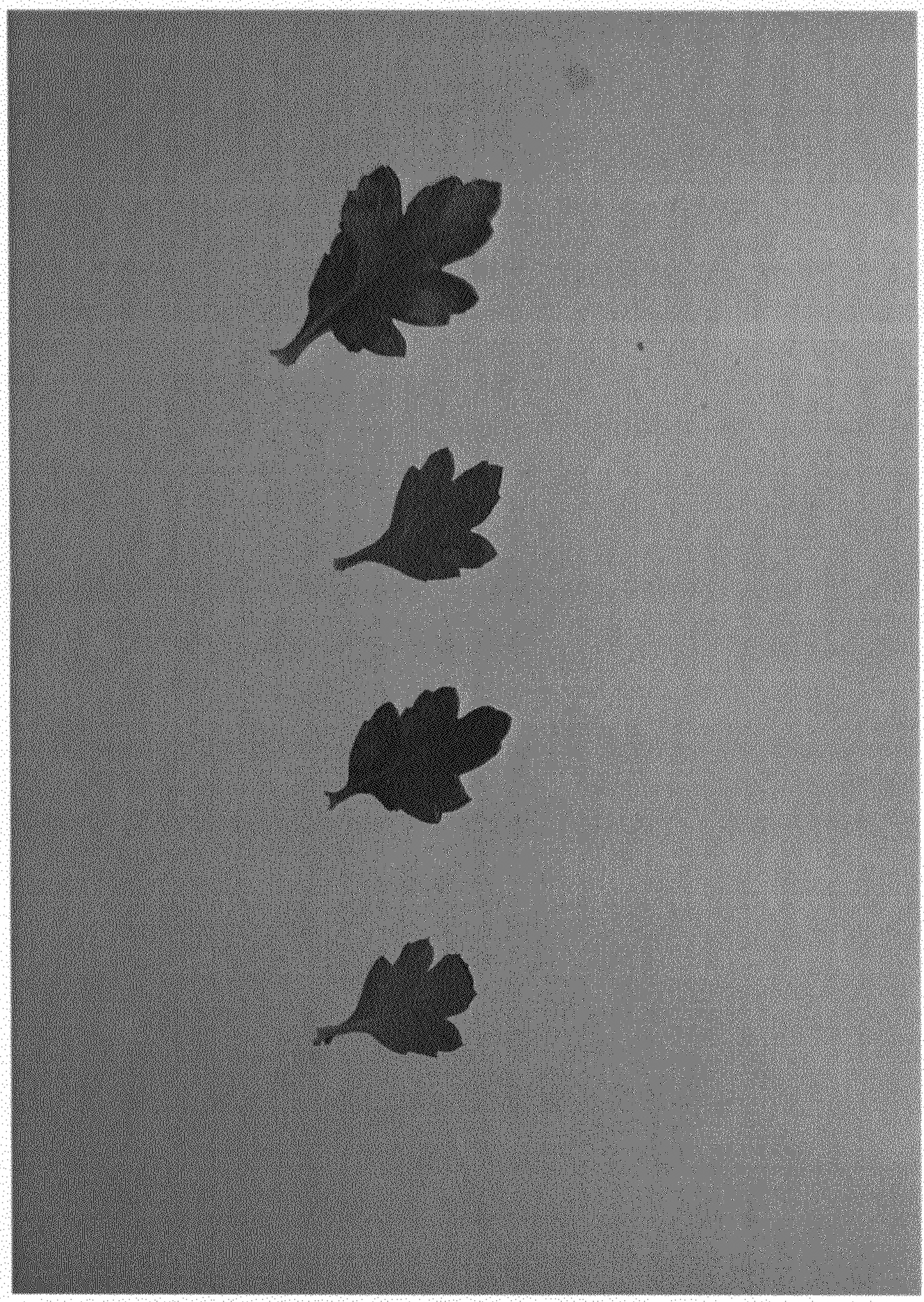

FIG. 3