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

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

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

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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 89 days.

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A01H 5/00 (2006.01)

(52) **U.S. Cl.**
USPC **Plt./295**

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

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmuember' characterized by its medium sized blooms with bronze ray florets and prolific branching; natural season flower date week 41; blooming for a period of 4 weeks.

3 Drawing Sheets

Botanical designation: *Chrysanthemum×morifolium* Ramat.

Cultivar denomination: 'Zanmuember'.

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 'Zanmuember'. 'Zanmuember' 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 flower date around week 41, blooming for a period of 5 weeks. 'Zanmuember' is a seedling resulting from a cross of the female parent id 9376 with the male parent id 177772. Both parents are unpatented plants. Plants of the new cultivar 'Zanmuember' differ from plants of the female parent in the following characteristics. (1) Plant vigor and (2) Natural season flower date. (1) Plants of the seedling are more vigorous than plants of the female parent. (2). Plants of the seedling flower later in season than plants of the male parent. Plants of the new cultivar 'Zanmuember' differ from plants of the male parent in the following characteristics. (1) Inflorescence size and (2) Natural season flower date. (1). The size of the inflorescences of the seedling is larger than those of the male parent. (2). Plants of the seedling flower later in season than plants of the male parent.

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 'Zanmuember' 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 cultivar 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 2010. The natural blooming date of this crop was October 11 (week 41). The average height of the plants was 39 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 cultivar produces medium sized blooms with bronze ray florets blooming for a period of 4 weeks.

From the cultivars known to inventor the most similar existing cultivars in comparison to 'Zanmuember' are 'Zanmusunset' (U.S. Plant Pat. No. 20,475) and 'Zanmufay'(U.S. Pat. No. 22,336). When 'Zanmuember' is being compared with 'Zanmusunset' and 'Zanmufay' the following differences are noticed (1) Color upper surface of ray florets. And (2) Presence of a disc in inflorescences. (1) The orange color of the upper surface of the ray florets is more yellow in tone in 'Zanmufay' than in 'Zanmuember' and 'Zanmusunset'. (2) A small disc is present in the inflorescences of 'Zanmuember', while it is absent in 'Zanmusunset' and 'Zanmufay'.

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

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

Detailed Botanical Description

Bud	
Size	Small; cross-section 5 mm, height 4 mm
Shape	Round
Texture	Pubescent
Outside Color	Greyed-green 191A
Phyllaries	
Number	20, arranged in 3 rows
Shape	Elliptic
Apex	Acute
Base	Truncate
Margin	Entire
Color	Upper surface: Green 138A Lower surface: Green 138B
Length and width	4 mm; 2 mm
Texture	Pubescent
Inflorescences	
Type	Double
Height	1.2 cm
Diameter	5 cm
Peduncle length	4-5 cm
Peduncle color	Green 138B
Peduncle diameter	1 mm
Peduncle texture	Pubescent
Number per branch	Approx. 5 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	
Center of inflorescence	Immature stage: Greyed-red 178B Mature stage: Yellow 12C
Color of upper surface of the ray-florets	Greyed-orange 168B to 168C
Color of the lower surface of the ray-florets	Greyed-orange 167D
Tonality from Distance	A garden mum with bronze blooms and a dark center
Color of the ray-florets after aging of the plant	Greyed-orange 168D
Ray florets	
Texture	Upper and lower surface smooth
Number	210-230
Shape	Elliptic
Apex	Dentate
Base	Attnuate
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	3-4 mm
Ray-floret margin	Entire
Ray-floret length	1.8-2 cm
Ray-floret width	4-6 mm
Ratio length/width	High
Disc florets	
Disc diameter	1 cm
Distribution of disc florets	Scarce
Shape	Tubular
Color	Yellow-green 150D at base to Yellow 12C at apex
Length	4 mm
Diameter	3 mm
Receptacle	
Color	Yellow-green 145D
Shape	Conical raised
Height	4 mm
Diameter	3 mm

TABLE 1-continued

Detailed Botanical Description

Reproductive Organs	
Androecium	Present on only disc florets
Stamen length	3 mm
Stamen color	Yellow-green 144A
Anther color	Yellow 3A
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	High
Height	38-40 cm
Width	60 cm
Stem Color	Greyed-brown 199A
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Not observed
Internode length	1.5-2 cm
Length of lateral branch	From top to bottom 22 cm
Lateral branch color	Green 137C
Lateral branch, attachment	Brittle
Lateral branch diameter	22 mm
Branching (average number of lateral branches)	Prolific with 7 breaks after pinching
Natural season blooming date	October 11 (week 41)
Foliage	
Leaf color	Upper side: Green 137A Lower side: Green N138C
Color midvein	Upper side: Yellow-green 147D Lower side: Yellow-green 148D
Size	Small; length 2-5.5 cm, width 1-3 cm
Quantity (number per lateral branch)	16-18
Shape	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
Apex	Mucronulate
Petiole length	1-2 cm
Petiole diameter	2 mm
Petiole color	Yellow-green 147D

TABLE 2

Differences with the comparison cultivars

	'Zanmuember'	'Zanmusunset'	'Zanmufay'
Color upper surface ray floret	Greyed-Orange 168B to 168C	Greyed-Orange 168B to 168C	Greyed-Orange 163B to 163D
Presence disc in inflorescences	Present	Absent	Absent

I claim:

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

* * * * *

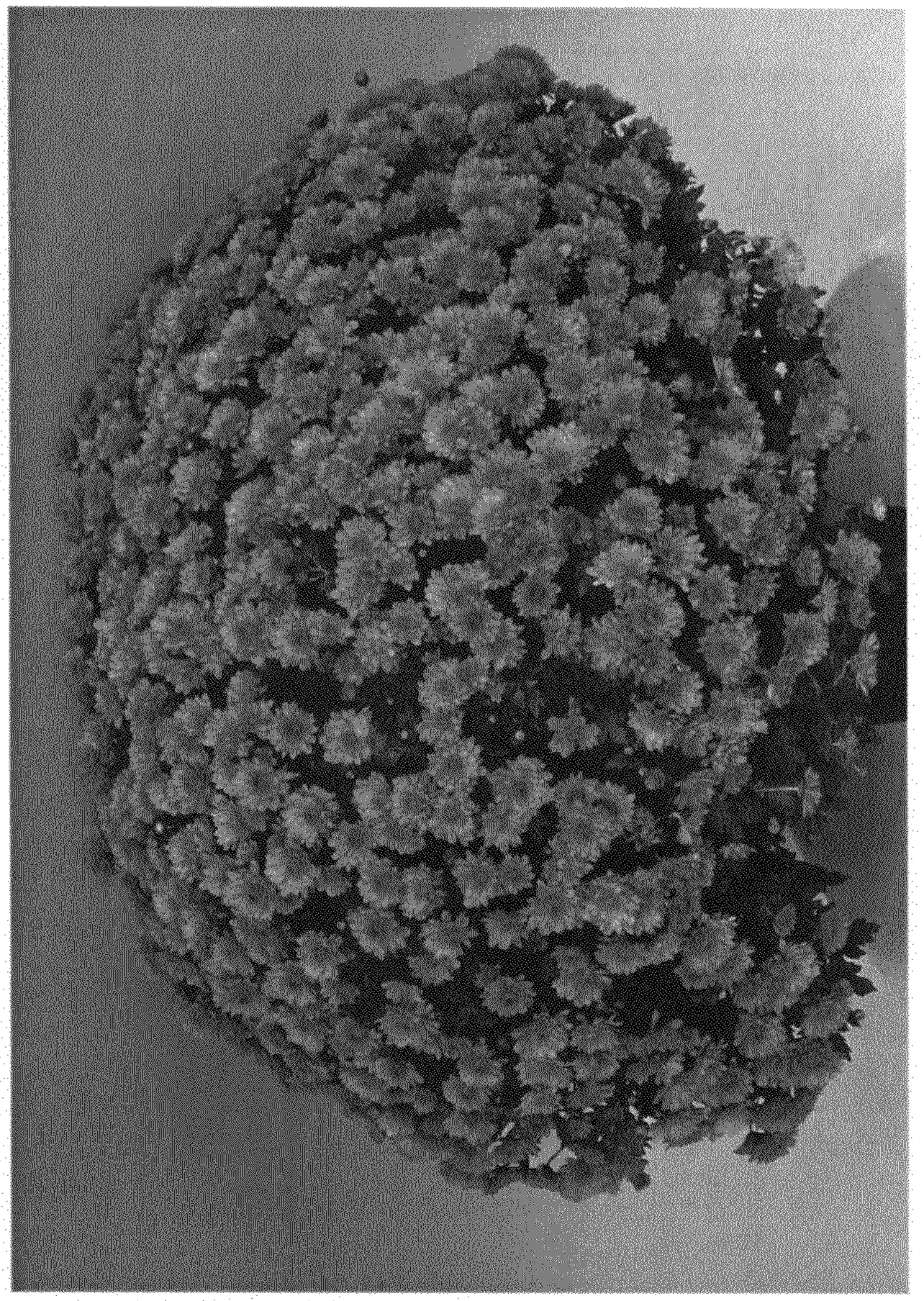

FIG. 1

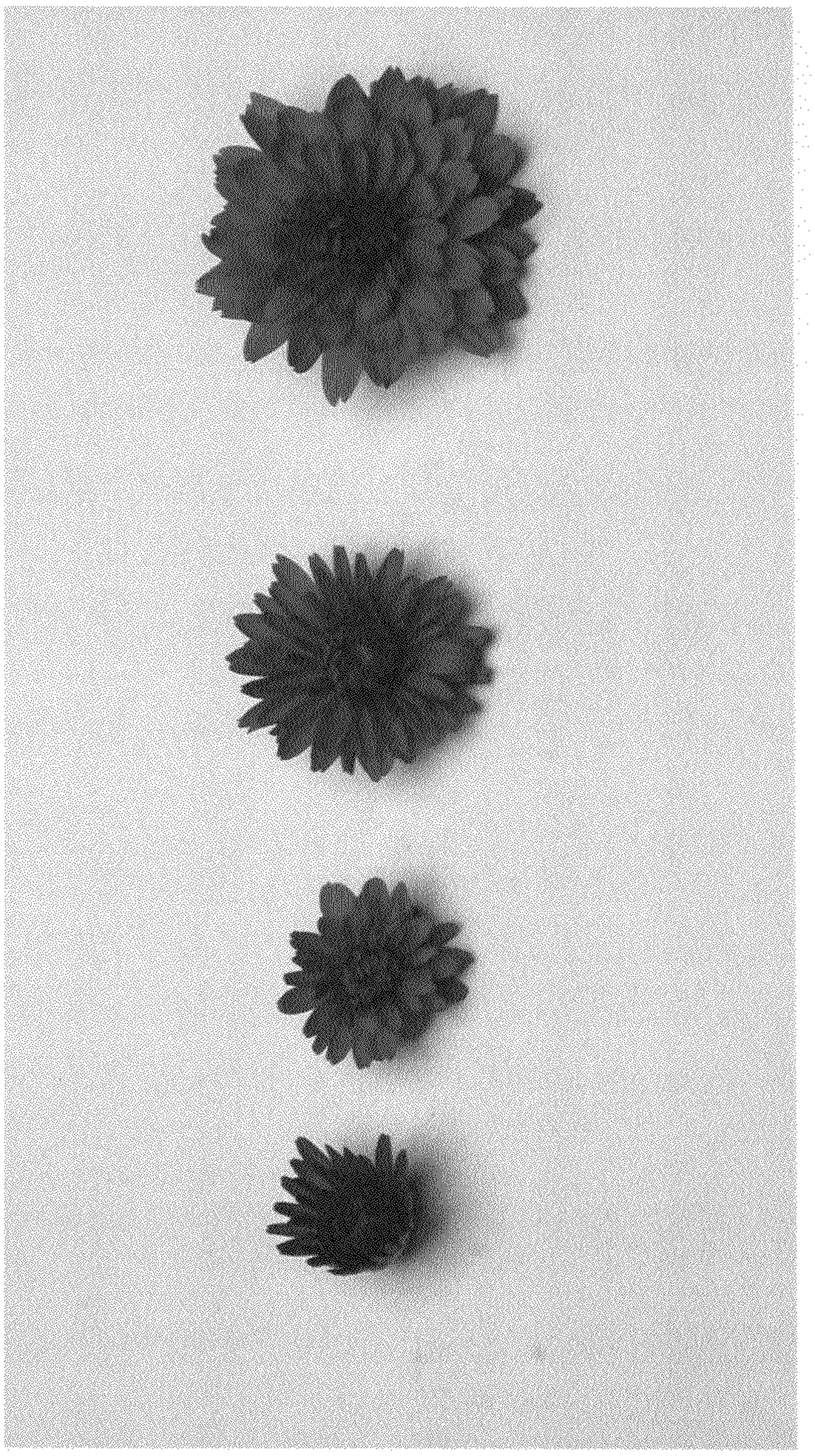

FIG. 2

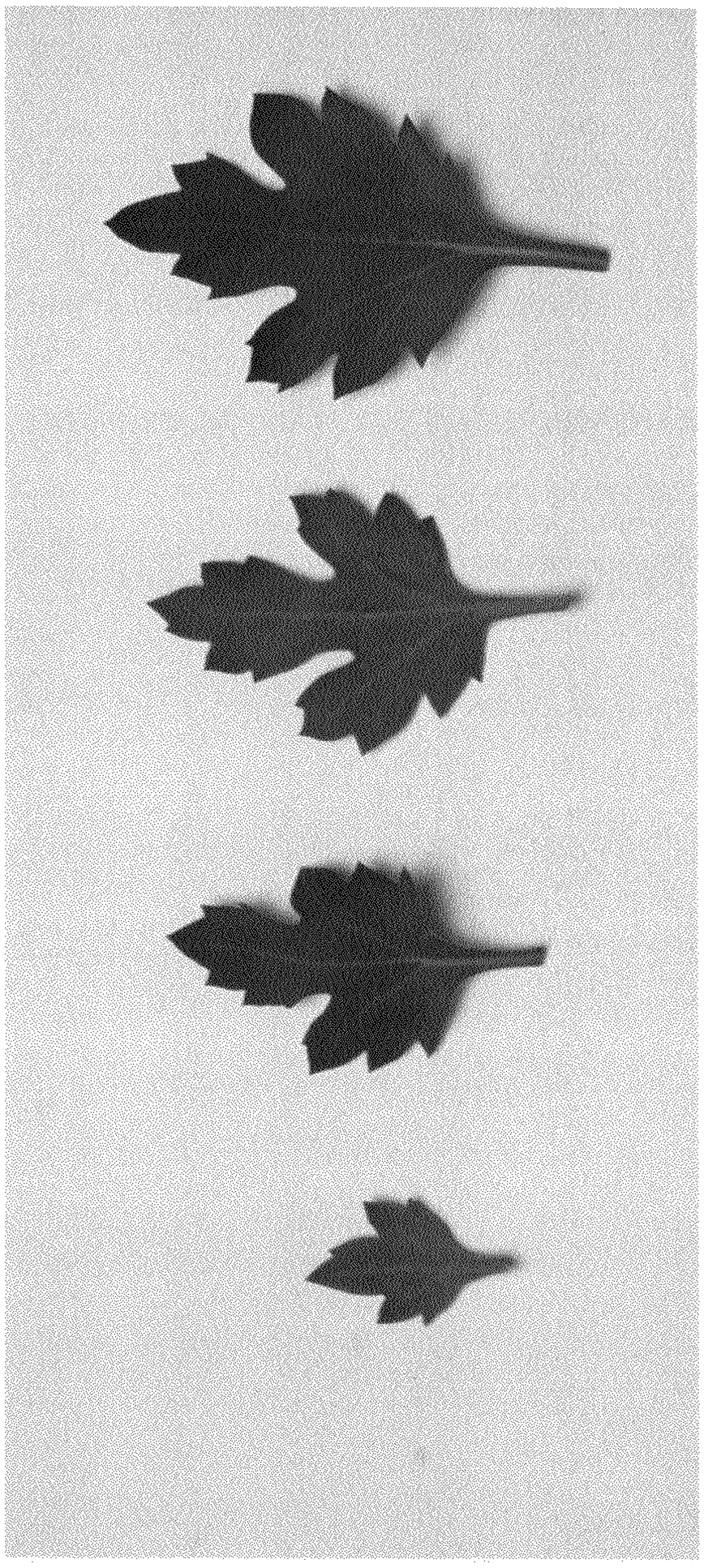

FIG. 3