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

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(54) **CHRYSANTHEMUM NAMED ‘ZANMUFIVE’**
(50) Latin Name: *Chrysanthemum morifolium* L.
Varietal Denomination: **Zanmufive**
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(73) Assignee: **Chrysanthemum Breeders Association**
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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.
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A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./293**; Plt./287
(58) **Field of Classification Search** Plt./287,
Plt./293
See application file for complete search history.
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(57) **ABSTRACT**
A *chrysanthemum* plant named ‘Zanmufive’ characterized
by its medium sized blooms with red ray florets and prolific
branching; natural season flower date September 4–8;
blooming for a period of 5 weeks.
3 Drawing Sheets

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Botanical designation: *Chrysanthemum morifolium* L.
Cultivar denomination: ‘ZANMUFIVE’.

BACKGROUND OF THE INVENTION

‘Zanmufive’ is a product of a breeding and selection pro-
gram for outdoor pot mums (garden mums) which had the
objective of creating new *chrysanthemum* cultivars with a
decorative type flower, a natural season flower date around
September 4–8; blooming for a period of 5 weeks. The new
plant of the present invention comprises a new and distinct
cultivar of *chrysanthemum* plant ‘Zanmufive’ is a seedling
resulting from a crossing program, set up by a previous
breeder, and which records are unknown to the inventor. The
new and distinct cultivar was discovered and selected as a
flowering plant by Wilhelmus Bernardus Blom on a culti-
vated field in Rijssenhou, The Netherlands in 2005. The first
act of asexual production of ‘Zanmufive’ was accomplished
when vegetative cuttings were taken from the initial selec-
tion in 2005 and propagated further in a controlled environ-
ment in Rijssenhou, The Netherlands. The new cultivar has
been found to retain its distinctive characteristics through
successive propagations.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

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. Pictures were taken of 16 week old plants.

FIG. 1 shows a plant of the cultivar in fill 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

This new variety of *chrysanthemum* is of the botanical
classification *Chrysanthemum morifolium* L. The observa-
tions and measurements were gathered from plants grown

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out door in Rijssenhou, The Netherlands under natural day
length and temperature and planted in week 24 in 2006. The
natural blooming date of this crop was September 4–8 (week
36). The average height of the plants was 28 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 red ray florets blooming for a period of 5
weeks.
From the cultivars known to inventor the most similar
existing cultivar in comparison to ‘Zanmufive’ are ‘Plutores’
(U.S. Plant Pat. No. 12,919) and ‘Manakin’ (U.S. Plant Pat.
No. 11,521) When ‘Plutores’, ‘Manakin’ and ‘Zanmufive’
are being compared the following differences are noticed:
The differences of ‘Plutores’, ‘Manakin’ and ‘Zanmufive’
are (1) Flower type, (2) Flower size and (3) Natural season
flowering time (1) The flower type of ‘Manakin’ is single,
while that of ‘Plutores’ and ‘Zanmufive’ is double (2) The
flowers of ‘Manakin’ and ‘Zanmufive’ are smaller than those
of ‘Plutores’ (3) The plants of ‘Plutores’, ‘Zanmufive’ and
‘Manakin’ flower at different times, resp. in late August,
early and mid-September.

The following is a description of the plant and character-
istics that distinguish ‘Zanmufive’ as a new and distinct vari-
ety.

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</i> plant ‘Zanmufive’	
Bud	
Size	Small; cross-section 0.5 cm, height 0.4 cm

TABLE 1-continued	
Botanical Description of <i>chrysanthemum</i> plant ‘Zanmufive’	
Shape	Spherical
Texture	Pubescent
Outside Colour	Greyed green 192A
<u>Phyllaries</u>	
Number	15, arranged in 3 rows
Shape	Elliptic
Apex	Acute
Base	Truncate
Margin	Entire
Colour	Green 138A
Length and width	7 mm and 3 mm
Texture	Pubescent
Presence among disc-florets	Not present
<u>Bloom</u>	
Type	Double
Height	1-1.3 cm
Size	4.5 cm
Peduncle length	7 cm
Peduncle color	Greyed purple N 186C
Peduncle diameter	1 mm
Peduncle surface	Ribbed
Number of blooms per branch	Approx. 5 blooms
Performance on the plant	5 weeks
Seeds	Produced in small quantities, ovate grey-brown 199A, 1½ mm in length.
Fragrance	Faint <i>chrysanthemum</i> odor
<u>Color</u>	
Center of the flower	Immature stage: Red-purple 59A Mature stage: Red-purple 59A
Color of upper surface of the ray-florets	Red 46A
Color of the lower surface of the ray-florets	Greyed red 181A
Tonality from Distance	A garden mum with red flowers
Color of the ray-florets after aging of the plant	Greyed purple 185B
<u>Ray florets</u>	
Texture	Upper surface: Satiny Lower surface: Smooth
Number	130-140
Shape	Oblong
Apex	Rounded
Base	Attenuate
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	0.3-0.4 cm
Ray-floret margin	Entire
Ray-floret length	1.8-2 cm
Ray-floret width	0.4-0.5 cm
Ratio length/width	Medium
Shape of tip	Rounded
Disc florets	Absent
<u>Receptacle</u>	
Shape	Conical raised
Height	2.5 mm
Diameter	2 mm
<u>Reproductive Organs</u>	
Androecium	Absent in ray florets
Pollen	None
Gynoecium	Present in ray florets
Styles	Thin

TABLE 1-continued	
Botanical Description of <i>chrysanthemum</i> plant ‘Zanmufive’	
Style color	Yellow 13A
Style Length	0.3 cm
Stigma color	Yellow-green 144A
Stigma Width	1 mm
Ovary	Enclosed in calyx
<u>Plant</u>	
Form	Grown as a spray type potmum, outdoor mounded and round
Growth habit	Spherical shape
Growth rate	Medium to high
Height	25-28 cm
Width	44-45 cm
Stem Color	Greyed-brown 199C
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Greyed purple N186C
Internode length	1-2 cm
Length of lateral branch	From top to bottom 20 cm
Lateral branch color	Greyed Green 195A with streaks of Greyed purple N 186C
Lateral branch, attachment	Strong
Branching (average number of lateral branches)	Prolific with 9-10 breaks after pinching
Natural season blooming date	September 4-8
<u>Foliage</u>	
Leaf color	Upper side Green 138A Lower side Green N138B
Color midvein	Upper side Yellow green 147D Lower side Yellow green 148D
Size	Small.; length 3.5-4.5 cm, width 2.5-3.5 cm
Quantity (number per lateral branch)	15-16
Shape	Widely elliptic
Texture upper side	Glabrous
Texture lower 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	Obtuse
Apex	Mucronulate
Petiole length	0.5-1 cm
Petiole diameter	1.5-2 mm
Petiole texture	Pubescent
Petiole color	Yellow-Green 147D

TABLE 2			
<u>Differences with the comparison varieties</u>			
	‘Zanmufive’	‘Plutores’	‘Manakin’
Flower type	double	double	single
Flower size	4.5 cm	5-5.5 cm	3.8 cm
Natural season flowering date	Early September	Late August	Mid September

I claim:
1. A new and distinct variety of *chrysanthemum* plant as described and illustrated.

* * * * *

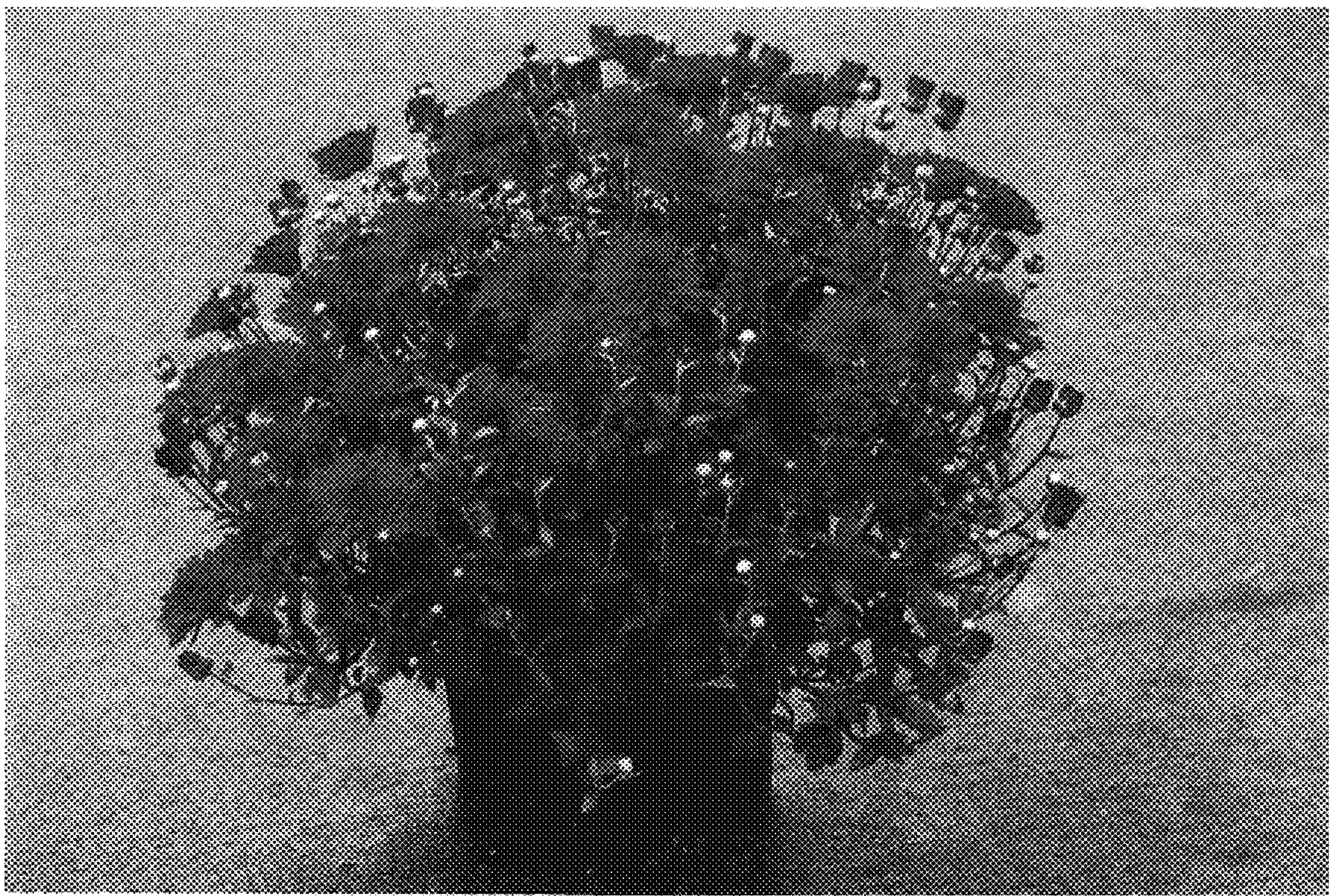


FIG.1

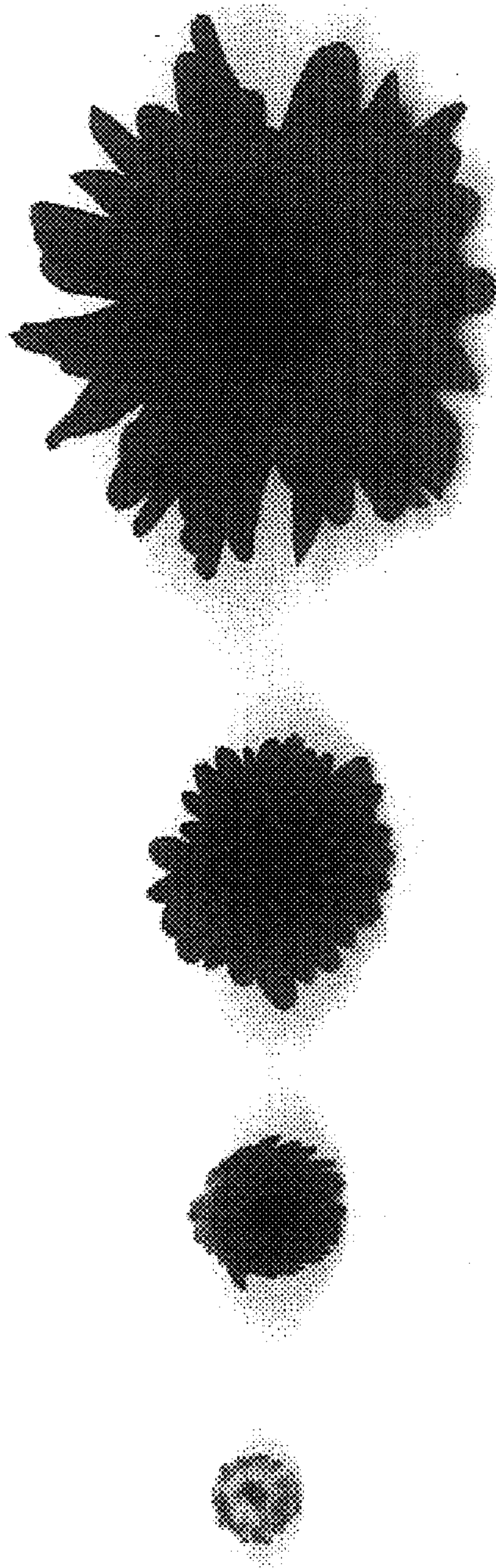


FIG. 2

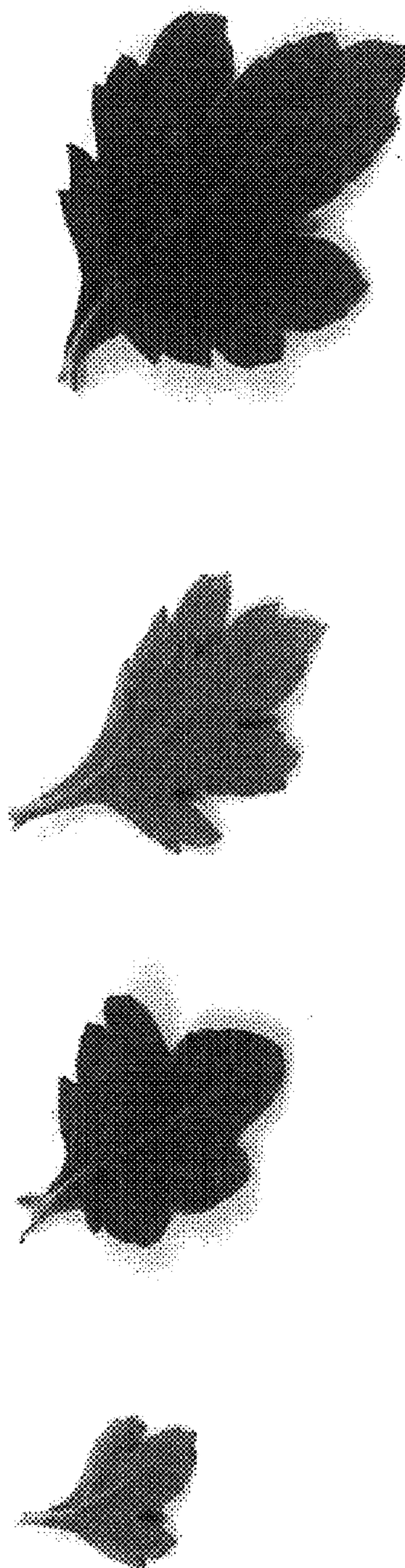


FIG. 3