



US00PP20475P3

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

(10) **Patent No.:** **US PP20,475 P3**
(45) **Date of Patent:** **Nov. 10, 2009**

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

(50) Latin Name: *Chrysanthemum*×*morifolium*
Varietal Denomination: **Zanmusunset**

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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.

(21) Appl. No.: **12/003,567**

(22) Filed: **Dec. 28, 2007**

(65) **Prior Publication Data**

US 2009/0172853 P1 Jul. 2, 2009

(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./290**

(58) **Field of Classification Search** **Plt./290**
See application file for complete search history.

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmusunset' characterized
by its medium sized blooms with orange ray florets and pro-
lific branching; natural season flower date September 14;
blooming for a period of 5 weeks.

3 Drawing Sheets

1

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

Cultivar denomination: 'Zanmusunset'.

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 herein after referred to by the cultivar denomina-
tion 'Zanmusunset'. 'Zanmusunset' is a product of a breeding
and selection program for outdoor pot mums (garden mums)
which had the objective of creating new *chrysanthemum* cul-
tivars with a double type flower, a natural season flower date
around September 14 (week 37); blooming for a period of 5
weeks. 'Zanmusunset' is a seedling resulting from a crossing
of the seed parent id 996 and pollen parent id 4422. Plants of
the new cultivar 'Zanmusunset' differ from its parent plants in
(1) flower type and (2) plant vigor. (1) The flower type of the
seed parent and of 'Zanmusunset' is double, while that of the
male parent is semi-double. (2) The plants of the male parent
are more strongly vigorous than those of 'Zanmusunset' and
of its seed parent.

The new and distinct cultivar was discovered and selected
as a flowering plant by Wilhelmus Bemardus Blom on a
cultivated field in Rijsenhout, The Netherlands in 2005. The
first act of asexual production of 'Zanmusunset' was accom-
plished 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 succes-
sive 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.

2

FIG. 1 shows a plant of the cultivar in full bloom.

FIG. 2 shows the various stages of bloom of the new cul-
tivar.

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

DESCRIPTION OF THE INVENTION

10 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 25 in
2007. The natural blooming date of this crop was September
14 (week 37). The average height of the plants was 40–45 cm.
15 No growth retardants were used. No tests were done on dis-
ease or insect resistance or susceptibility. No tests were done
on cold or drought tolerance. This new variety produces
medium sized blooms with orange ray florets blooming for a
20 period of 5 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmusunset' is 'Thor'
(U.S. Plant Pat. No. 12,597). When 'Thor' and 'Zanmusun-
set' are being compared the following differences are noticed:
25 The differences of 'Thor' and 'Zanmusunset' are (1) Flower
size and (2) Plant size. (1) The flowers of 'Zanmusunset'
are smaller in size than those of 'Thor'. (2) The plants of 'Zan-
musunset' are larger than those of 'Thor'.

30 The following is a description of the plant and character-
istics that distinguish 'Zanmusunset' 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 descrip-
tion is: The Royal Horticultural Society Colour Chart, edition
35 2001.

TABLE 1

Botanical description of <i>chrysanthemum</i> plant named 'Zanmusunset'	
<u>Bud</u>	
Size	Small; cross-section 1 cm, height 0.8 cm
Outside Color	Greyed-orange 168D
Phyllaries	2 rows
Phyllaries among disc-florets	Not present
<u>Bloom</u>	
Type	Double
Height	1 cm
Size	4.5 cm
Phyllary number	25-28
Phyllary color (upper surface)	Green 138A
Phyllary length and width	7 mm and 3 mm
Peduncle length	12-14 cm
Peduncle color	Green 139C
Number of blooms per branch	Approx. 6 blooms per branch
Duration of flowering	5 weeks
Seeds	Produced in small quantities, ovate grey-brown 199A, 1 1/2 mm in length.
Fragrance	Typical <i>chrysanthemum</i> , slightly
<u>Color</u>	
Center of the flower	Immature stage: Greyed-red 181A Mature stage: Greyed-orange 168C
Color of upper surface of the ray-florets	Greyed-orange 168 B-C
Color of the lower surface of the ray-florets	Greyed-orange 173C
Tonality from Distance	A garden mum with orange flowers
Color of the ray-florets after aging of the plant	Greyed-orange 167D
<u>Ray florets</u>	
Texture	Upper and under surface smooth
Number	220-230
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	0.5 cm
Ray-floret margin	Entire
Ray-floret length	1.8-2.5 cm
Ray-floret width	0.3-0.5 cm
Ratio length/width	High
Shape of tip	Dentate
Disc florets	Absent
Receptacle shape	Conical raised
<u>Reproductive Organs</u>	
Stamen	Absent
Pistil	Present in ray-florets (one per ray-floret)
Style color	Yellow 13A
Style Length	3 mm
Stigma color	Yellow-green 144A
Stigma Width	1 mm
Ovaries	Enclosed in calyx

TABLE 1-continued

Botanical description of <i>chrysanthemum</i> plant named 'Zanmusunset'	
5	<u>Plant</u>
	Form
	Grown as a spray type potmum, outdoor mounded and round
	Growth habit
	Spherical shape
	Growth rate
	Vigorous
10	Height
	40-45 cm
	Width
	55 cm
	Stem Color
	Greyed-brown 199C
	Stem Strength
	Strong
	Stem Brittleness
	Not brittle
	Stem Anthocyanin Coloration
	Absent
15	Internode length
	1-1.5 cm
	Length of lateral branch
	From top to bottom 20-22 cm
	Lateral branch color
	Yellow-green 146D
	Lateral branch, attachment
	Medium strength
	Branching (average number of lateral branches)
	Prolific with 8 breaks after pinching
20	Natural season blooming date
	September 14 (week 37)
	<u>Foliage</u>
	Leaf color
	Upper side: Green 139 A-B
	Lower side: Green 138A
	Color midvein
	Upper side: Yellow-green 147D
	Lower side: Yellow-green 148D
25	Size
	Quantity (number per lateral branch)
	23-25
	Shape
	Ovate
	Texture upper side
	Glabrous
	Texture under side
	Pubescent
30	Venation arrangement
	Palmate
	Shape of the margin
	Serrated
	Shape of Base of Sinus Between Lateral Lobes
	Rounded
	Margin of Sinus Between Lateral Lobes
	Converging
35	Shape of Base
	Truncate
	Apex
	Mucronulate
	Petiole length
	1-1.5 cm
	Petiole color
	Yellow-green 147D

TABLE 2

<u>Differences with the comparison variety</u>		
	'Zanmusunset'	'Thor'
45	Flower size	4.5 cm
	Plant height	6.57 cm
		30-35 cm

The invention claimed is:

50 1. A new and distinct variety of *chrysanthemum* plant as described and illustrated.

* * * * *

Fig. 1

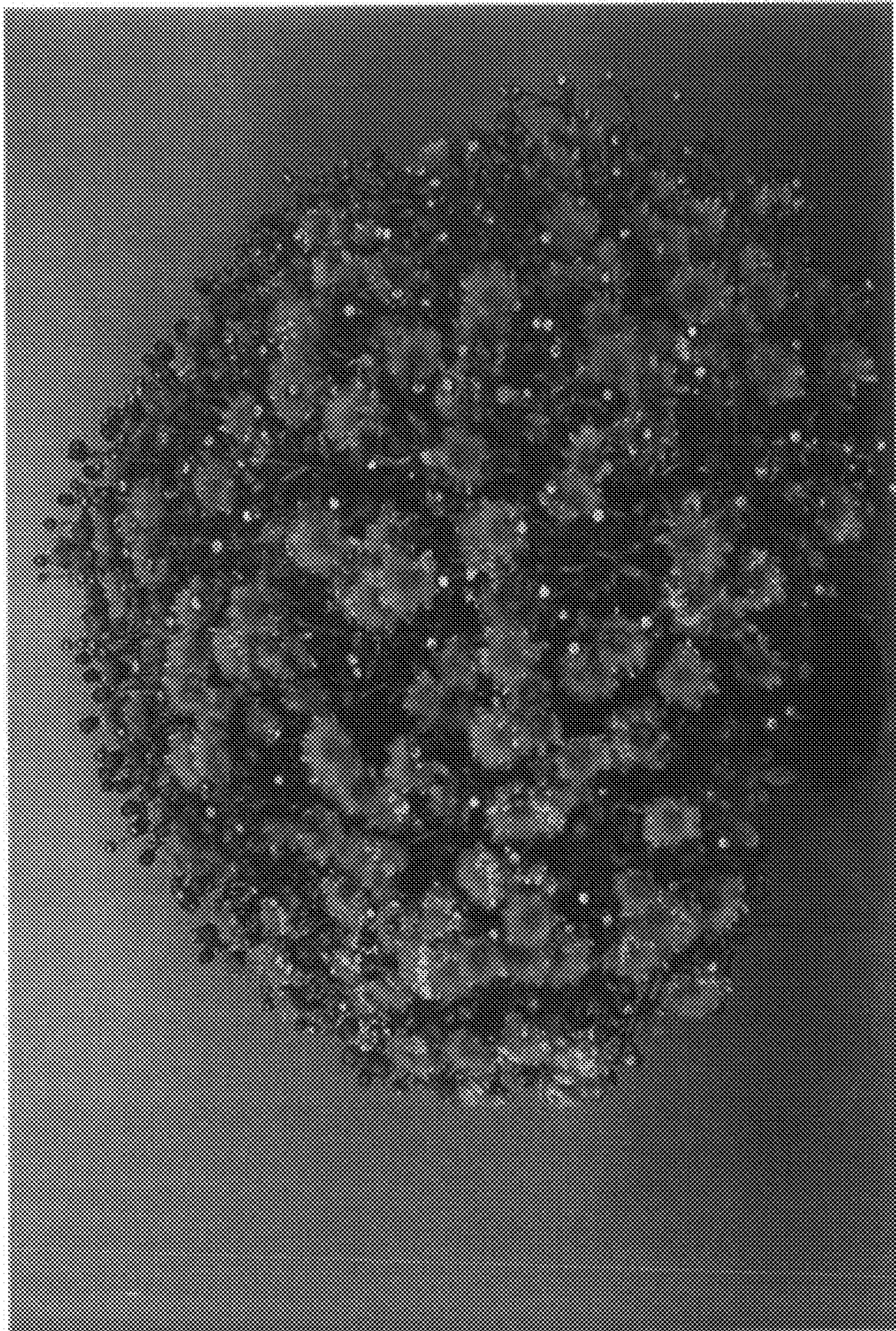


FIG. 2

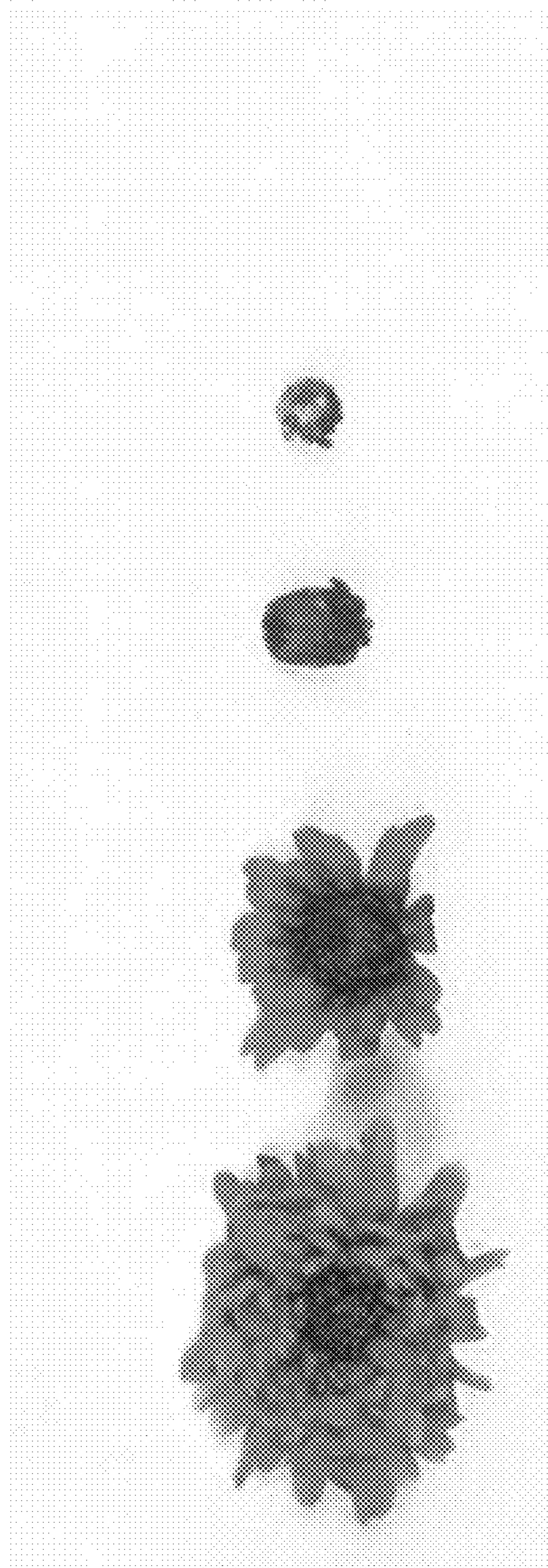


FIG. 3

