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

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

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

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

(52) **U.S. Cl.** **Plt./288**

(75) Inventor: **Wilhelmus Bernardus Blom,**
Leimuiden (NL)

(58) **Field of Classification Search** Plt./288
See application file for complete search history.

(73) Assignee: **Chrysanthemum Breeders Association**
Research B.V.

Primary Examiner—June Hwu
(74) *Attorney, Agent, or Firm*—Step toe & Johnson LLP

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(57) **ABSTRACT**

(21) Appl. No.: **12/003,539**

A *chrysanthemum* plant named 'Zanmustarbu' characterized
by its large sized blooms with white ray florets and prolific
branching; natural season flower date August 20 (week 34);
blooming for a period of 5 weeks.

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

(65) **Prior Publication Data**

US 2009/0172849 P1 Jul. 2, 2009

3 Drawing Sheets

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

Cultivar denomination: Zanmustarbu.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *chrysanthemum* plant, botanically known as *Chrysanthemum*×*monrifolium* Ramat., commercially grown as a garden
mum, and herein after referred to by the cultivar denomina-
tion 'Zanmustarbu'. 'Zanmustarbu' 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-spider type flower, a natural season
flower date around August 20 (week 34); blooming for a
period of 5 weeks. 'Zanmustarbu' is a seedling resulting from
a crossing of the seed parent id 710 and pollen parent 16.590.
Plants of the new cultivar 'Zanmustarbu' differ from plants of
parent plants in (1) flower color (2) and bloom type. (1) The
flowers of 'Zanmustarbu' are white, while those of the seed
parent and pollen parent are yellow, and purple, respectively.
(2) The flowers of the seed parent are double, while those of
the pollen parent and of 'Zanmustarbu' are double-spiders.

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 2004. The
first act of asexual production of 'Zanmustarbu' was accom-
plished when vegetative cuttings from the initial selection in
2004 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.

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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 Rijsenhout, The Netherlands under
natural day length and temperature and planted in week 25 in
2007. The natural blooming date of this crop was August 20
(week 34). The average height of the plants was 25 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 large sized
blooms with white ray florets blooming for a period of 5
weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmustarbu' is 'Crete'
(U.S. Plant Pat. No. 16,677). When 'Crete' and 'Zanmus-
tarbu' are being compared the following difference is noticed:
The difference of 'Crete' and 'Zanmustarbu' are (1) Flower
type And (2) Flower size. (1) The flowers of 'Zanmustarbu'
are larger than those of 'Crete'. (2) The flowers of 'Zanmus-
tarbu' are double-spiders, while those of 'Crete' are purely
double types.

The following is a description of the plant and character-
istics that distinguish 'Zanmustarbu' 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
2001.

TABLE 1

Botanical Description of <i>chrysanthemum</i> plant 'Zanmuflamin'	
<u>Bud</u>	
Size	Small ;cross-section 1 cm, height 0.8 cm
Outside Color	Greyed-purple 186D
Phyllaries	2 rows
Phyllaries among disc-florets	Not present
<u>Bloom</u>	
Type	Double
Height	1.5 cm
Size	4.5 cm
Phyllary number	12-14
Phyllary color	Green 138A
Phyllary length and width	2 cm and 2 mm
Peduncle length	4-4.5 cm
Peduncle color	Green 138B
Number of blooms per branch	Approx. 5 blooms per branch
Performance on the plant	5 weeks
Seeds	Produced in small quantities, ovate grey-brown 199A, 1½ mm in length.
Fragrance Color	Typical <i>chrysanthemum</i> , slightly
Center of the flower	Immature stage: Red-purple 58A Mature stage: Red-purple 58A
Color of upper surface of the ray-florets	Red-purple 59D
Color of the lower surface of the ray-florets	Greyed-purple 186C (at top) to 186D (at base)
Tonality from Distance	A garden mum with bright purple flowers
Color of the ray-florets after aging of the plant	Greyed-purple 186B
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	200-220
Cross-section	Flat
Longitudinal axis off majority	Straight
Length of corolla tube	0.3-0.4 cm
Ray-floret margin	Entire
Ray-floret length	2-2.2 cm
Ray-floret width	0.3-0.5 cm
Ratio length/width	High
Shape of tip	Rounded
Disc florets	Absent
Receptacle shape	Conical raised
<u>Reproductive Organs</u>	
Stamen	Lacking
Styles	Short
Style color	Yellow 13A
Style Length	3 mm
Stigma color	Yellow-green 144A
Stigma Width	1 mm
Ovaries	Enclosed in clayx

TABLE 1-continued

Botanical Description of <i>chrysanthemum</i> plant 'Zanmuflamin'		
5	<u>Plant</u>	
	Form	Grown as a spray type potmum, outdoor mounded and round
	Growth habit	Spherical shape
	Growth rate	Medium vigour
10	Height	30 cm
	Width	40 cm
	Stem Color	Greyed-brown 199C
	Stem Strength	Strong
	Stem Anthocyanin Coloration	Present
15	Internode length	1-2 cm
	Length of lateral branch	From top to bottom 15-18 cm
	Lateral branch color	Yellow-green 146C
	Lateral branch, attachment	Medium strength
20	Branching (average number of lateral branches)	Good with 6-7 breaks after pinching
	Natural season blooming date	September 11 (week 37)
<u>Foliage</u>		
25	Leaf color	Upper side Green 143b Lower side Green 143C
	Color midvein	Upper side Yelloww-green 147D Lower side Yellow-green 148D
	Size	Small.; length 4.5-6.5 cm, width 3-3.5 cm
30	Quantity (number per lateral branch)	16
	Shape	Elliptic
	Texture upper side	Glabrous
	Texture under size	Pubescent
	Venation arrangement	Palmate
	Shape of the margin	Serrated
35	Shape of Base of Sinus Between Lateral Lobes	Acute
	Margin of Sinus Between Lateral Lobes	Diverging
	Shape of Base	Truncate
	Apex	Mucronulate
40	Petiole length	1 cm
	Petiole color	Yellow-green 147D

TABLE 2

45	Differences with the comparison variety (grown under identical conditions)	
	'Zanmuflamin'	'Venus purple'
50	Flower colour	Red-purple 59D
	Natural season blooming date	September 11 (week 37)
		Red-purple 60A September 18 (week 38)

I claim:

55 1. A new and distinct variety of *chrysanthemum* plant 'Zanmuflamin' as described and illustrated.

* * * * *

FIG. 1

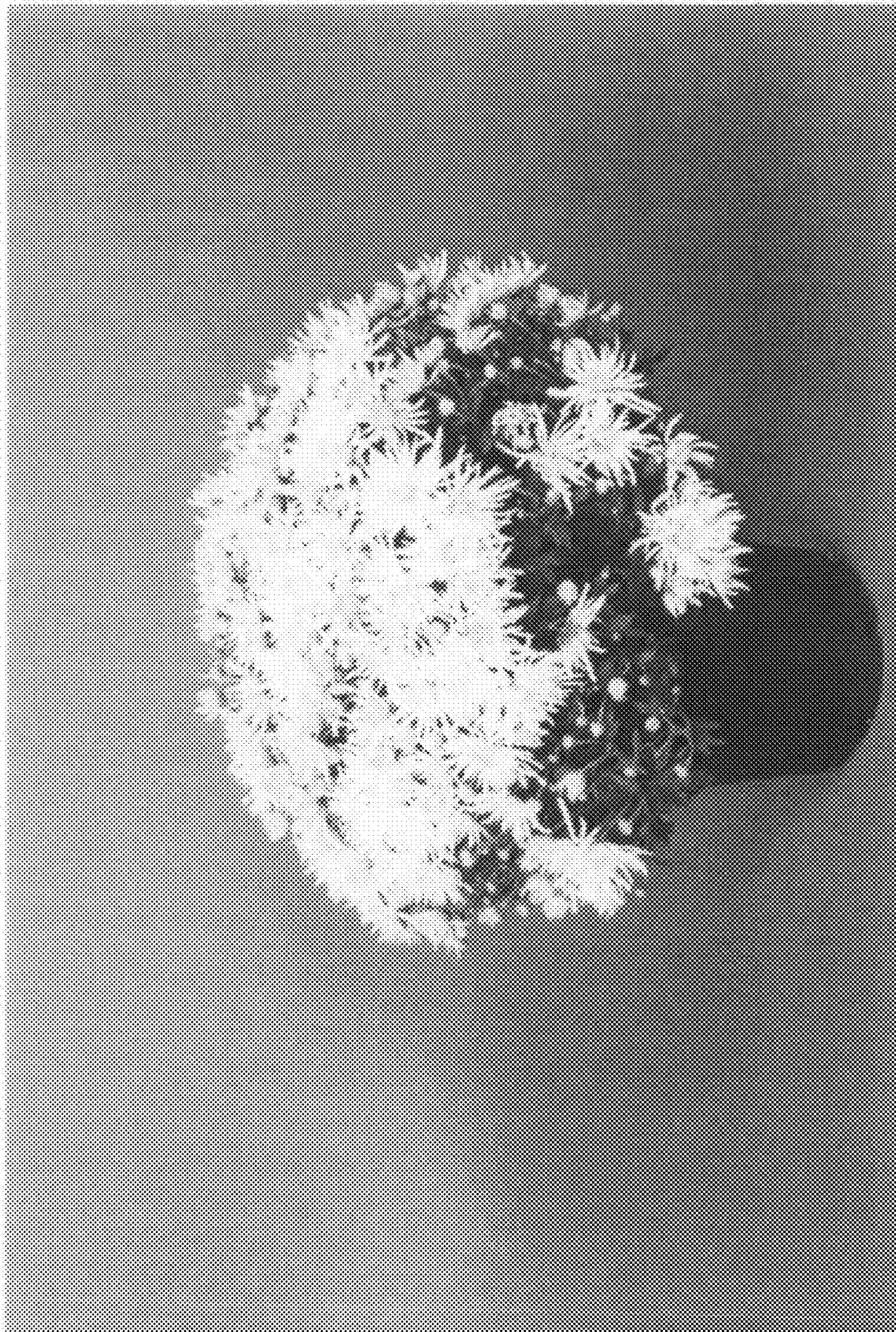


FIG. 2

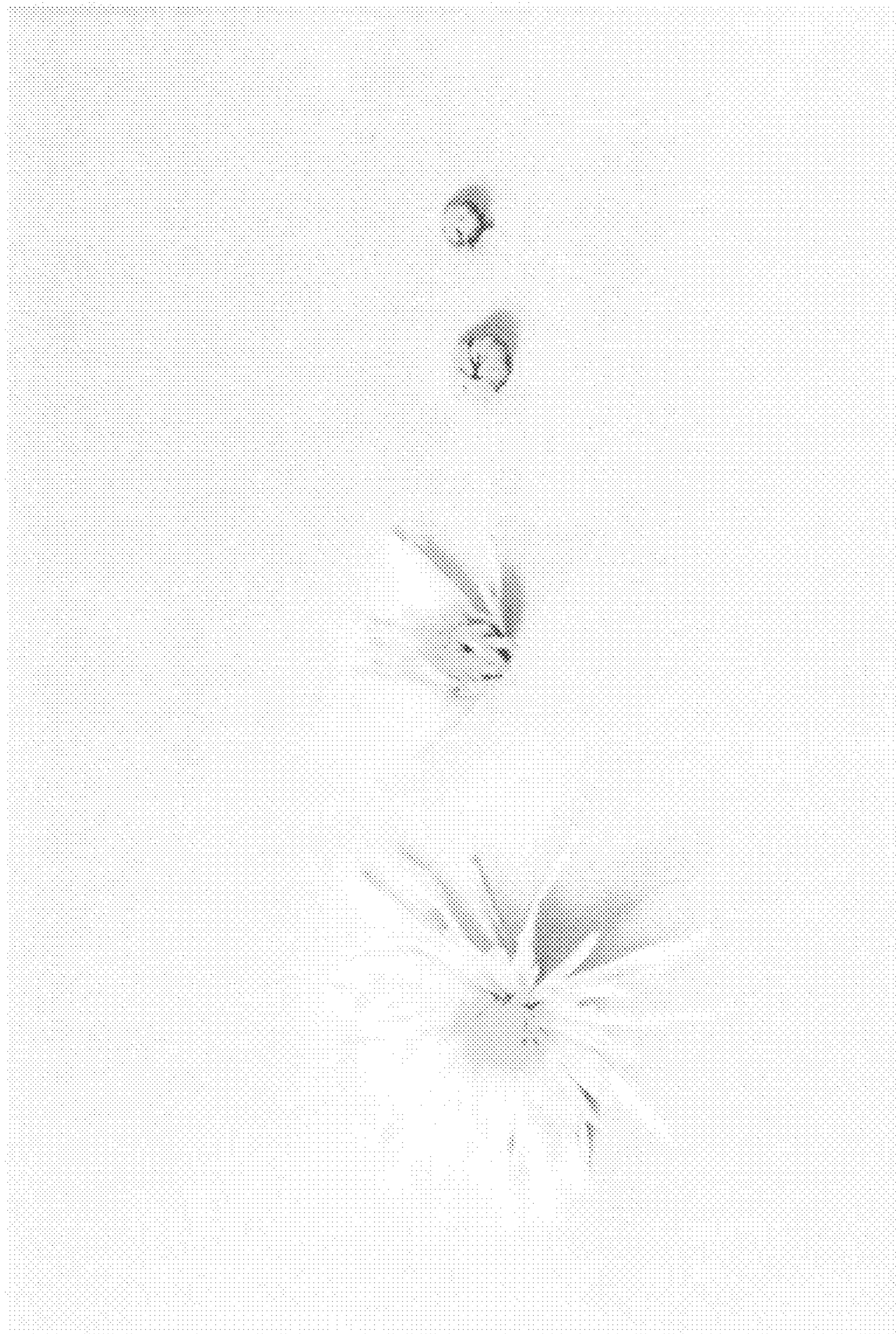


FIG. 3

