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

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- (54) **CHRYSANTHEMUM PLANT NAMED 'ZANMUDAY'**
- (50) Latin Name: *Chrysanthemum*×*morifolium* Ramat.  
Varietal Denomination: **Zanmuday**
- (71) Applicant: **Chrysanthemum Breeders Association Research B.V.**, Aalsmeer (NL)
- (72) Inventor: **Wilhelmus Bernardus Blom**, Leimuiden (NL)
- (73) Assignee: **Chrysanthemum Breeders Association Research B.V.**, Valkenburg (NL)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 5 days.
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- (65) **Prior Publication Data**  
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- (51) **Int. Cl.**  
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- (52) **U.S. Cl.**  
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- (58) **Field of Classification Search**  
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See application file for complete search history.

*Primary Examiner* — Anne Grunberg  
(74) *Attorney, Agent, or Firm* — Steptoe & Johnson LLP

(57) **ABSTRACT**  
A *chrysanthemum* plant named 'Zanmuday' characterized by its medium sized blooms with yellow ray florets and prolific branching; natural season flowering date October 8 (week 41); blooming for a period of 5 weeks.

**3 Drawing Sheets**

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Botanical designation: *Chrysanthemum*×*morifolium* Ramat.  
Cultivar denomination: 'Zanmuday'.

**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 'Zanmuday'. 'Zanmuday' 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 October 8 (week 41), blooming for a period of 5 weeks. 'Zanmuday' is a seedling resulting from a cross of the female parent id 24636 with the male parent id 26443. Plants of the new cultivar 'Zanmuday' differ from plants of the female parent in inflorescence size; the inflorescences of the seedling are larger than those of the female parent. Plants of the new cultivar 'Zanmuday' differ from plants of the male parent in natural-season flowering date; plants of the seedling flower in an earlier period than those 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 2007. The first act of asexual production of 'Zanmuday' was accomplished when vegetative cuttings from the initial selection in 2007 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.

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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 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 2005. The natural blooming date of this crop was October 8 (week 41) . The average height of the plants was 35 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 'Zanmuday' are 'Zanmugoldru' (U.S. Plant Pat. No. 20,462) and 'Zanmugolmine' (U.S. Plant Pat. No. 22,618). When 'Zanmuday', 'Zanmugoldru' and 'Zanmugolmine' are being compared the following differences are noticed: (1) Plant vigor. And (2) Natural season flowering date. (1) Plants of 'Zanmuday' are slightly less vigorous than those of 'Zanmugoldru', and more vigorous than those of 'Zanmugolmine. (2) Plants of 'Zanmuday' and of 'Zanmugoldru' flower later in the season than those of 'Zanmugolmine'.

The following is a description of the plant and characteristics that distinguish 'Zanmuday' 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 <i>Chrysanthemum x morifolium</i> Ramat. 'Zanmuday'	
<u>Bud</u>	
Size:	Small; cross-section 6 mm, height 4 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191A
<u>Phyllaries</u>	
Number:	24-25, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green 138A Lower side: Green 139C
Length and width:	3-4 mm; 1.5 mm
Texture:	Pubescent
<u>Inflorescences</u>	
Type:	Double
Height:	2-2.2 cm
Diameter:	5 cm
Peduncle length:	7-8 cm
Peduncle color:	Green 138B
Peduncle diameter:	1.5 mm
Peduncle texture:	Pubescent
Number per branch:	Approx. 6-8 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 <i>chrysanthemum</i> odor
<u>Color inflorescences</u>	
Center of inflorescence:	Immature stage: Yellow 13B; Mature stage: Yellow 13B
Color of upper side of ray florets:	Yellow 12B
Color of lower side of ray florets:	Yellow 11A
Tonality from distance:	A garden <i>mum</i> with bright yellow blooms
Color of ray florets after aging of the plant:	Yellow 12B
<u>Ray florets</u>	
Texture:	Upper and lower side smooth
Number:	220-240
Shape:	Elliptic
Apex:	Dentate
Base:	Attenuate
Cross-section:	Flat
Longitudinal axis:	Straight to reflexing
Length of corolla tube:	2-3 mm
Ray floret margin:	Entire
Ray floret length:	1.8-2.5 cm
Ray floret width:	2-6 mm
Ratio length/width:	Medium
Disc florets	Absent
<u>Receptacle</u>	
Color:	Yellow-green 145D
Shape:	Conical raised
Height:	5 mm
Diameter:	4 mm
<u>Reproductive Organs</u>	
Androecium:	Absent
Pollen:	Absent
Gynoecium:	Present on ray florets
Style color:	Yellow-green 154C
Style length:	4 mm

TABLE 1-continued

Botanical Description of <i>Chrysanthemum x morifolium</i> Ramat. 'Zanmuday'	
5	Stigma color: Yellow 7A Stigma width: 1 mm Ovary: Enclosed in calyx Plant
10	Form: Grown as a spray type pot mum, outdoor raised and mounded Growth habit: Spherical shape Growth rate: Medium to high Height: 35 cm Width: 50 cm Stem color: Greyed-brown 199A
15	Stem strength: Strong Stem brittleness: Not brittle Stem anthocyanin coloration: Not observed Internode length: 1.5-2.5 cm Length of lateral branch: From top to bottom 18-20 cm
20	Lateral branch color: Green 137 C Lateral branch, attachment: Strong Lateral branch diameter: 2 mm Branching (average number of lateral branches): Prolific with 8 breaks after pinching
25	Natural season: October 8 (week 41) blooming date: Foliage
30	Leaf color: Upper side: Green 137A Lower side: Green 137B Color midvein: Upper side: Yellow-green 147D Lower side: Yellow-green 148D Size: Small; length 2-5.5 cm, width 1.6-2.6 cm Quantity (number per lateral branches): 24-26
35	Shape: Elliptic Texture upper side: Sparsely pubescent Texture under side: Pubescent Venation arrangement: Palmate Shape of margin: Serrated
40	Shape of base of sinus between lateral lobes: Rounded Margin of sinus between lateral lobes: Diverging Shape of base: Attenuate to truncate Apex: Mucronulate
45	Petiole length: 0.2-0.5 cm Petiole diameter: 1 mm Petiole color: Yellow-green 147D

TABLE 2

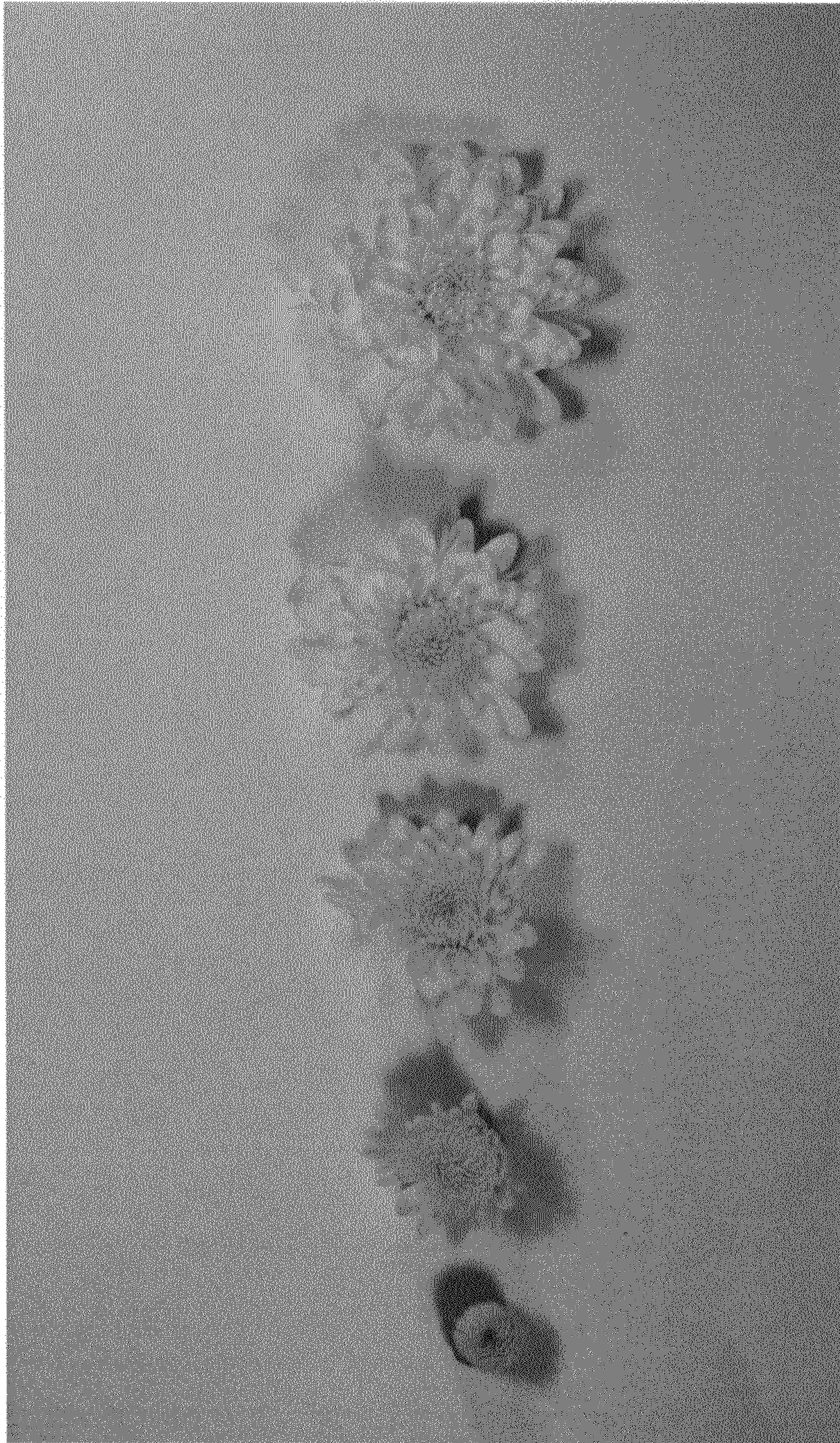
Differences with the comparison varieties, when grown under identical conditions				
	'Zamuday'	'Zanmugolmine'	'Zanmugoldru'	
55	Plant width	50 cm	25 cm	50-55 cm
	Natural season flowering date	week 41	week 34	week 41

60 I claim:  
1. A new and distinct *chrysanthemum* plant named 'Zanmuday' as described and illustrated.

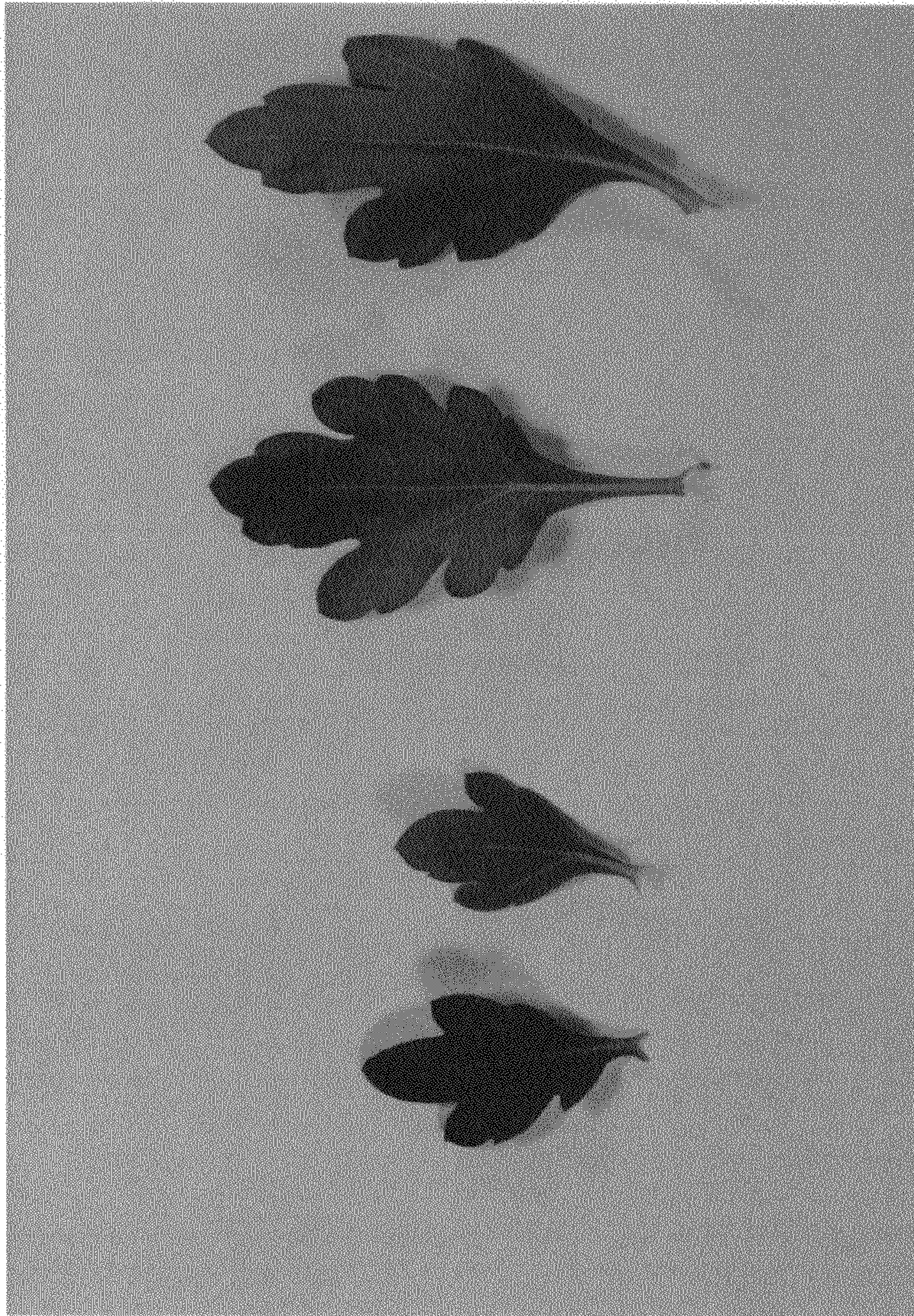
\* \* \* \* \*



**FIG. 1**



**FIG. 2**



**FIG. 3**