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

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

(50) Latin Name: *Chrysanthemum morifolium*
Varietal Denomination: **Dora**

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(NL)

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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 75 days.

(21) Appl. No.: **11/020,165**

(22) Filed: **Dec. 27, 2004**

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

(52) **U.S. Cl.** **Plt./298**

(58) **Field of Classification Search** Plt./298
See application file for complete search history.

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Dora' characterized by its
small sized blooms with red ray florets and prolific branch-
ing; natural season flower date October 18–25; blooming for
a period of 4 weeks.

3 Drawing Sheets

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BACKGROUND OF THE INVENTION

'Dora' is a product of a breeding and selection program
for outdoor pot mums (garden mums) which had the objec-
tive of creating new *chrysanthemum* cultivars with a daisy
type flower, a natural season flower date around October
18–25; blooming for a period of 4 weeks. The new plant of
the present invention comprises a new and distinct cultivar
of *chrysanthemum* plant 'Dora' is a seedling resulting from
a crossing program, which was 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 Mark Roland Boeder on a cultivated field in
Rijsenhout, The Netherlands in 2001. The first act of asexual
production of 'Dora' was accomplished when vegetative
cuttings were taken from the initial selection in 2001 in a
controlled environment in Rijsenhout, The Netherlands, and
propagated further at this location. 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.

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 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
out door in Rijsenhout, The Netherlands under natural day
length and temperature and planted week 24 in 2004. The
natural blooming date of this crop was October 18–25 (week
43). The average height of the plants was 40 cm. No growth
retardants were used. No tests were done on disease or insect
resistance or susceptibility. No tests were done on cold or

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drought tolerance. This new variety produces small sized
blooms with red ray florets and a yellow center blooming for
a period of 4 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Dora' are 'Plutores' (U.S.
Plant Pat. No. 12,919) and 'Cecaesar' (U.S. Plant Pat. No.
15,402). When 'Plutores', 'Cecaesar' and 'Dora' are being
compared the following differences are noticed: The differ-
ences of 'Plutores', 'Cecaesar' and 'Dora' are (1) Bloom
type. The flowers of 'Plutores' and 'Cecasear' are
decorative, while those of 'Dora' are of daisy type. (2)
Flower size. The flowers of 'Dora' are smaller in size than
those of 'Plutores' and 'Cecaesar' (3) Color ray-florets. The
red color of the ray-florets is differently shaded in the three
varieties 'Dora', 'Plutores' and 'Cecaesar'.

The following is a description of the plant and character-
istics that distinguish 'Dora' 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
description is: The Royal Horticultural Society Colour
Chart, edition 1995.

TABLE 1

Botanical Description or *chrysanthemum* plant 'DORA'

Bud	
Size	Small; cross-section 0.3 cm, height 0.2 cm
Outside Color	Greyed-purple 187B
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 139C
Bloom	
Type	Daisy
Height	1 cm
Size	Small
Fully Expanded	3 cm
Peduncle length	3.5–4 cm
Peduncle color	Yellow-green 144A to Green 138A

TABLE 1-continued

Botanical Description or <i>chrysanthemum</i> plant ‘DORA’	
Number of blooms per branch	Approx. 5–7 blooms per branch
Performance on the plant	4 weeks
Seeds	Produced in small quantities, ovate grey-brown 199A, 1½ mm in length.
Fragrance	Typical <i>chrysanthemum</i> , slightly
<u>Color</u>	
Center of the flower (disc-florets)	Immature Yellow-green 145A Mature Yellow-orange 15A Greyed-red 178B
Color of upper surface of the ray-florets	
Color of the lower surface of the ray-florets	Greyed-orange 175D
Tonality from Distance	A garden mum with red flowers and a yellow disc
Discoloration to color	Greyed-red 178B
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	70–80
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	0.3 cm
Ray-floret margin	Entire
Ray-floret length	1.3 cm
Ray-floret width	0.3 cm
Ratio length/width	High
Shape of tip	Pointed
<u>Disc florets</u>	
Disc diameter	1 cm
Distribution of disc florets	Numerous, clearly visible at all stages
Shape	Tubular
Receptacle shape	Conical raised
<u>Reproductive Organs</u>	
Stamen	Present in disc florets only
Stamen color	Yellow-green 144A
Pollen	Present
Pollen color	Yellow 7A
Styles	Thin
Style color	Yellow 13A
Style Length	3 mm
Stigma color	Yellow-green 144A
Stigma Width	1 mm
Ovaries	Enclosed in calyx
<u>Plant</u>	
Form	Grown as a spray type potmum, outdoor mounded and round
Growth habit	Spherical shape
Growth rate	Medium vigor
Height	40 cm
Width	55 cm
Stem Color	Greyed-brown 199B

TABLE 1-continued

Botanical Description or <i>chrysanthemum</i> plant ‘DORA’	
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Absent
Internode length	1.5–3 cm
Length of lateral branch	From top to bottom 13 cm
Lateral branch color	Yellow-green 144B
Lateral branch, attachment	Medium strength
Branching (average number of lateral branches)	Prolific with 8–10 breaks after pinching
Natural season blooming date	October 18–25
<u>Foliage</u>	
Leaf color	Upper side Green 137A Lower side Green 138A
Color midvein	Upper side Green 138C Lower side Green 139D
Size	Small; length 2–3.5 cm width 2–2.5 cm
Quantity (number per lateral branch)	18–20
Shape	Ovate
Texture upper side	Glabrous
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	0.5 cm
Petiole color	Green 138C

TABLE 2

<u>Differences with the comparison varieties</u>			
	‘Dora’	‘Plutores’	‘Cecaesar’
Bloom type	Daisy	Decorative	Decorative
Flower size	3 cm	4.5 cm	5.5 cm
Color upper side ray-florets	Greyed-red 178B	Red 46A	Greyed-red 178D at tip and Yellow 7C at base

I claim:

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

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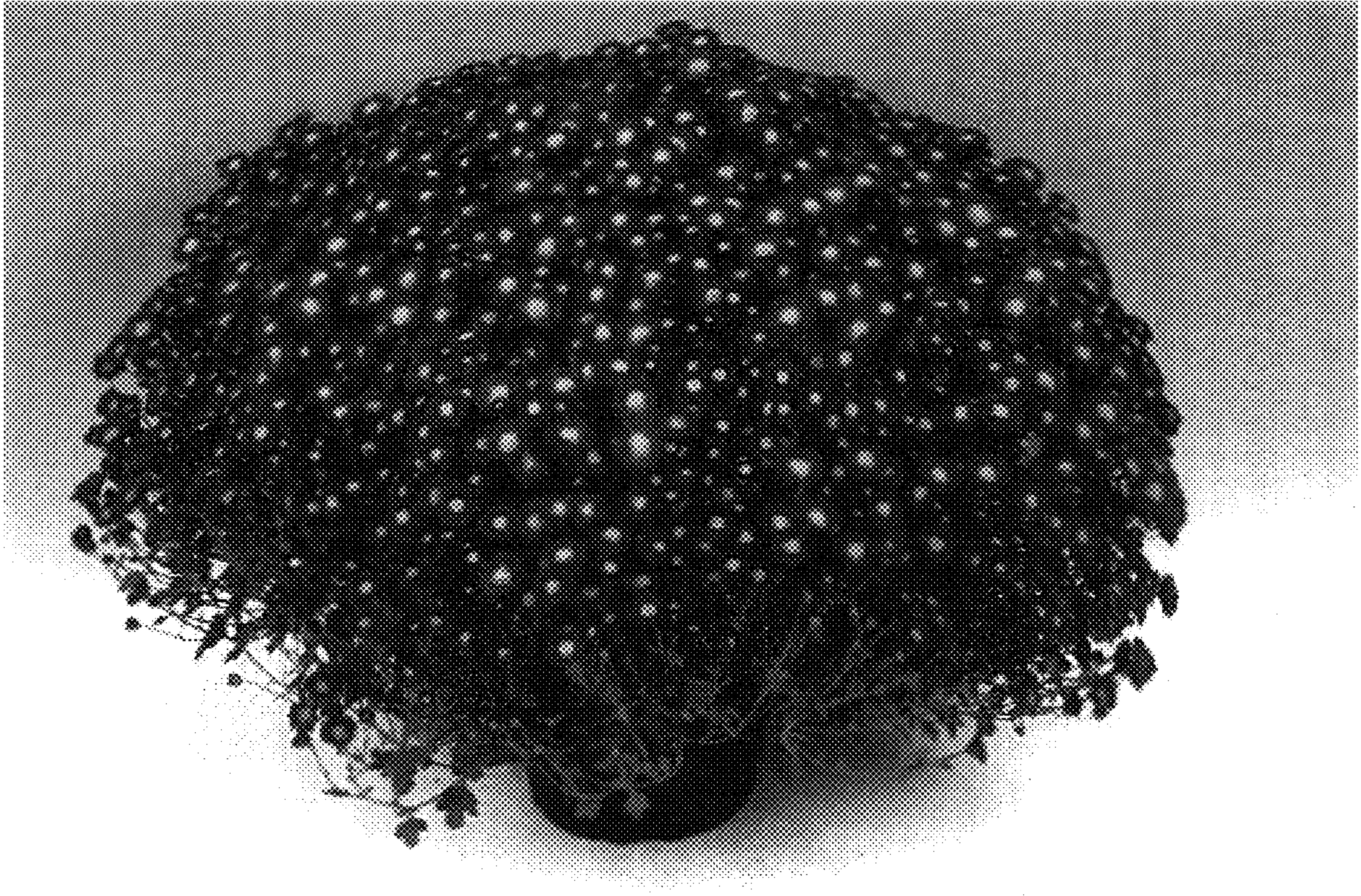


FIG. 1

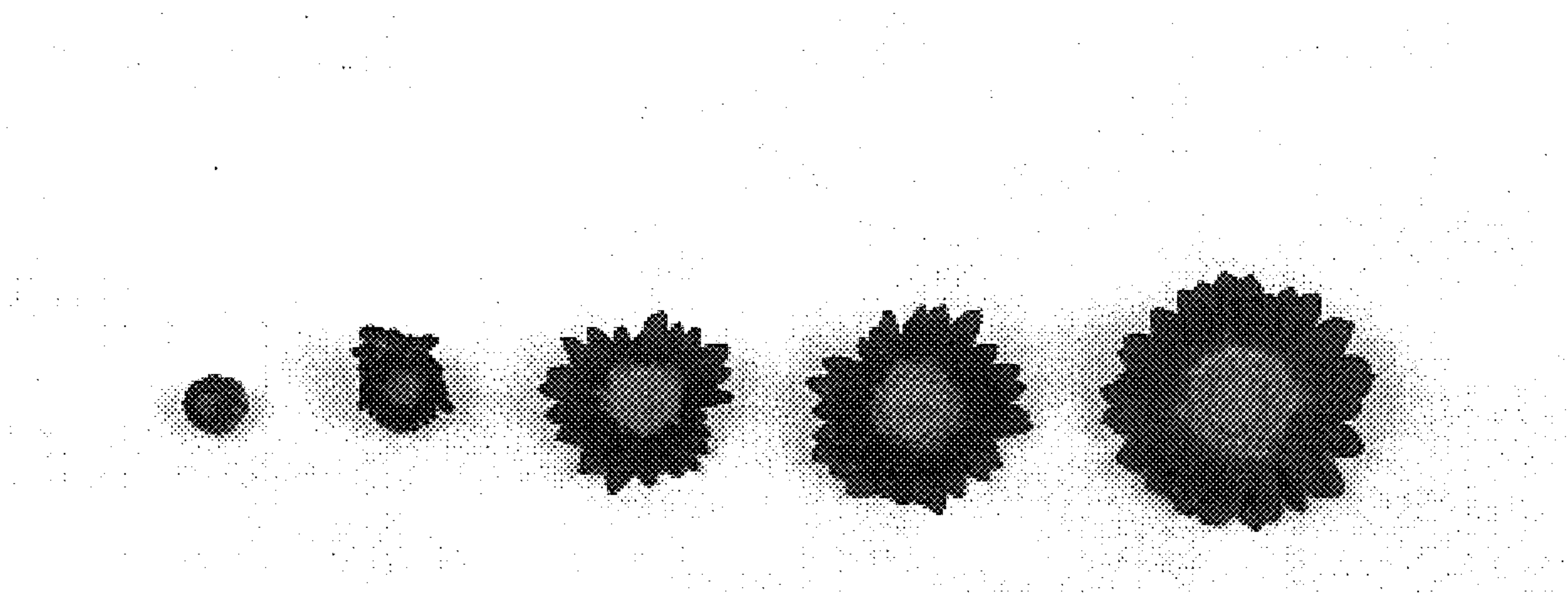


FIG. 2

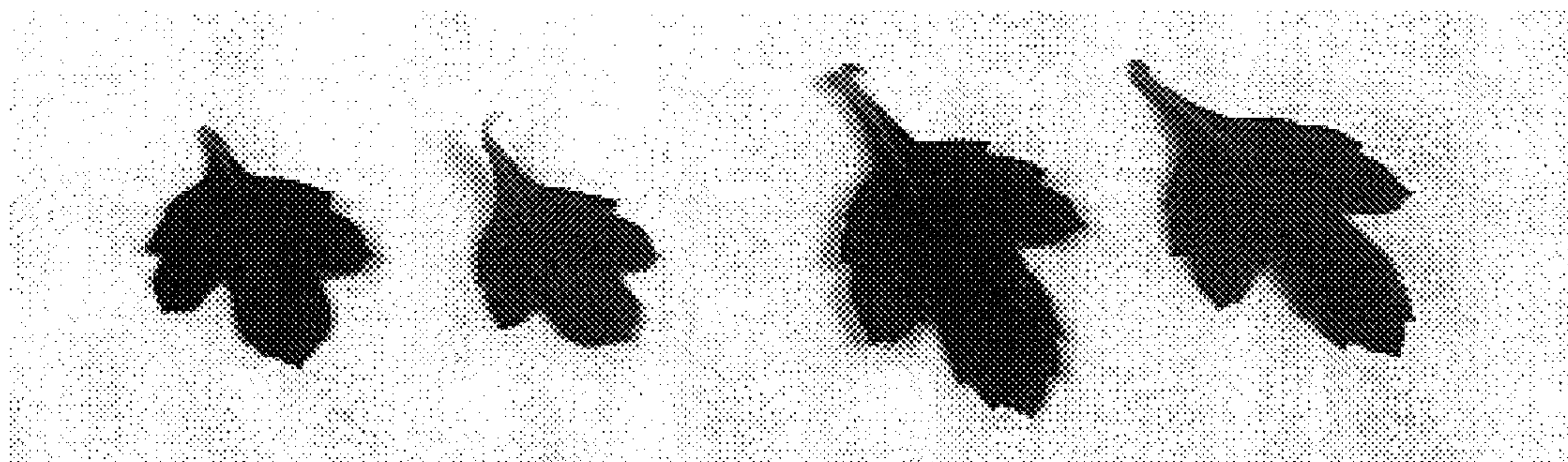


FIG. 3