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

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(54) **CHRYSANTHEMUM PLANT NAMED
‘VALENTIN’**

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patent is extended or adjusted under 35
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(58) **Field of Search** **Plt./297**

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(57) **ABSTRACT**

A Chrysanthemum plant named ‘Valentin’ characterized by
its SMALL sized blooms with PALE PINK ray-florets and
YELLOW-GREEN disc florets.

2 Drawing Sheets

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BACKGROUND OF THE INVENTION

‘VALENTIN’ is a product of a breeding-program which
had the objective of creating new chrysanthemum cultivars
with a small type flower, a 7 week response and a compact
plant height. The new plant of the present invention com-
prises a new and distinct cultivar of Chrysanthemum plant.
‘VALENTIN’ is a seedling from a cross in a breeding
program maintained under the control of inventor. The
female parent is #92.0424-unpatented-, an unnamed seedling
not available to inventor for description. The male parent is
unknown, being a mixed pollation of a group of male
parents. The new and distinct cultivar was discovered and
selected as a flowering plant within the progeny of the stated
cross by Rob Noodelijk in a controlled environment (green-
house) in Rijsenhout Holland in May 1998. The first act of
asexual reproduction of ‘VALENTIN’ was accomplished
when vegetative cuttings were taken from the initial selec-
tion in August 1998 in a controlled environment in Rijsen-
hout Holland.

SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of
chrysanthemum bearing small sized blooms with pale pink
ray-florets and yellow-green disc florets.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of
chrysanthemem 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 various stages of foliage and petiole of
the new cultivar.

DESCRIPTION OF THE INVENTION

This new variety of chrysanthemum is of the botanical
classification *dendranthema grandiflora*. The observations
and measurements were gathered from plants grown in a
greenhouse in Rijsenhout Holland in a photo-periodic con-
trolled crop under conditions generally used in commercial
practice. The greenhouse temperatures during this crop were

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at day-time between 18° C. and 25° C. and at night 20° C.
The photo-periodic response time in this crop was 47 days
after an average of eight long days. After this long day
period to flowering growth retardants were applied 6 times
in an average dose of 1.5 gram/liter water. No tests were
done on disease or insect resistance or susceptibility. This
new variety produces small sized blooms with pale pink
ray-florets and yellow-green disc-florets blooming on the
plant for 5 weeks. This new variety of chrysanthemum has
been found to retain its distinctive characteristics throughout
successive propagations however the phenotype may vary
significantly with variations in environment such as light
intensity and temperature. To show the phenotype as
described ‘VALENTIN’ can be planted without assimilation
lightning (high pressure sodium lamps) between week 50
and week 40 of the next year under greenhouse conditions
in Holland. With assimilation lightning (minimum level
2500 lux) it can be planted year round under greenhouse
conditions in Holland.

A distinguishing characteristic of ‘VALENTIN’ is the
darker colored reverse side of the petals. From the varieties
known to inventor only the variety HOGGAR (Ser. No.
09/561,926) is similar for this characteristic. In flower size,
shape and color however, HOGGAR is very different form
‘VALENTIN’. A comparison is made in table 2.

The following is a description of the plant and character-
istics that distinguish ‘VALENTIN’ 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 color chart,
edition 1995.

TABLE 1

Botanical Description of CULTIVAR ‘VALENTIN’	
<u>Bud</u>	
Size	Small; cross-section 0.9 cm, height 0.7 cm
Outside Color	Red-purple 74 B
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts	Not present

TABLE 1-continued

Botanical Description of CULTIVAR ‘VALENTIN’	
among disc-florets	
Involucral bracts color	Green 138 A
<u>Bloom</u>	
Type	Daisy
Height	Flat
Size	Small
Fully Expanded	4.0–4.5 cm.
Number of blooms per branch	Approx. 5–6 blooms per branch
Performance on the plant	5 weeks
Seeds	Not produced
Fragrance	Typical chrysanthemum
<u>Color</u>	
Center of the flower (disc-florets)	Immature yellow-green 151 A
Color of upper surface of the ray-florets	Mature yellow-green 151 D
Color of the lower surface of the ray-florets	Red-purple 69 B
Tonality from Distance	Red-purple 74 D
Discoloration to color	A pot mum with pale pink flowers and a purple buds
<u>Ray florets</u>	Red-purple 69 C
Texture	Upper and under side smooth
Number	30–32 (2 rows)
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	Very short
Ray-floret length	2.0–2.2 cm.
Ray-floret width	0.7–0.9 cm.
Ratio length/width	Low
Shape of tip	Round
<u>Disc florets</u>	
Disc diameter	1.0–1.2 cm.
Distribution of disc florets	Numerous clearly visible at all stages of flowering.
Shape	Tubular
Color	Yellow-green 151 A
Receptacle shape	Conical raised
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	Yellow, thin, 3 mm. in length
Number of stamen	Grown together as one

TABLE 1-continued

Botanical Description of CULTIVAR ‘VALENTIN’	
Stamen color	Yellow-green 144 C
Pollen	Present
Pollen color	Yellow-orange 13 A
Styles (present in both ray and disc florets)	Yellow-green, thick
Style color	Yellow-green 144 C
Style Length	3 mm.
Stigmas	Green-yellow
Stigma Width	1 mm.
Ovaries	Enclosed in calyx
<u>Plant</u>	
Form	A pot mum meant for indoor use
Growth habit	Spreading
Growth rate	Moderate
Height	19.0–21.0 cm.
Width	22.0–24.0 cm.
Stem Color	Green 138 A
Stem Strength	Weak
Stem Brittleness	Absent
Stem Anthocyanin Coloration	Absent
Length of lateral branch	From top to bottom 11–12 cm.
Lateral branch color	Green 138 A
Lateral branch, attachment	Weak
Branching (average number of lateral branches)	Pralific with 4–5 breaks after pinching
Peduncle length	2.0–2.5 cm.
Peduncle color	Green 138 A

TABLE 2

Differences with the comparison varieties		
‘VALENTIN’	‘HOGGAR’	
Color of upper surface of ray florets	Red-purple 69 B	Yellow 12 A

I claim:

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

* * * * *



FIG. 1

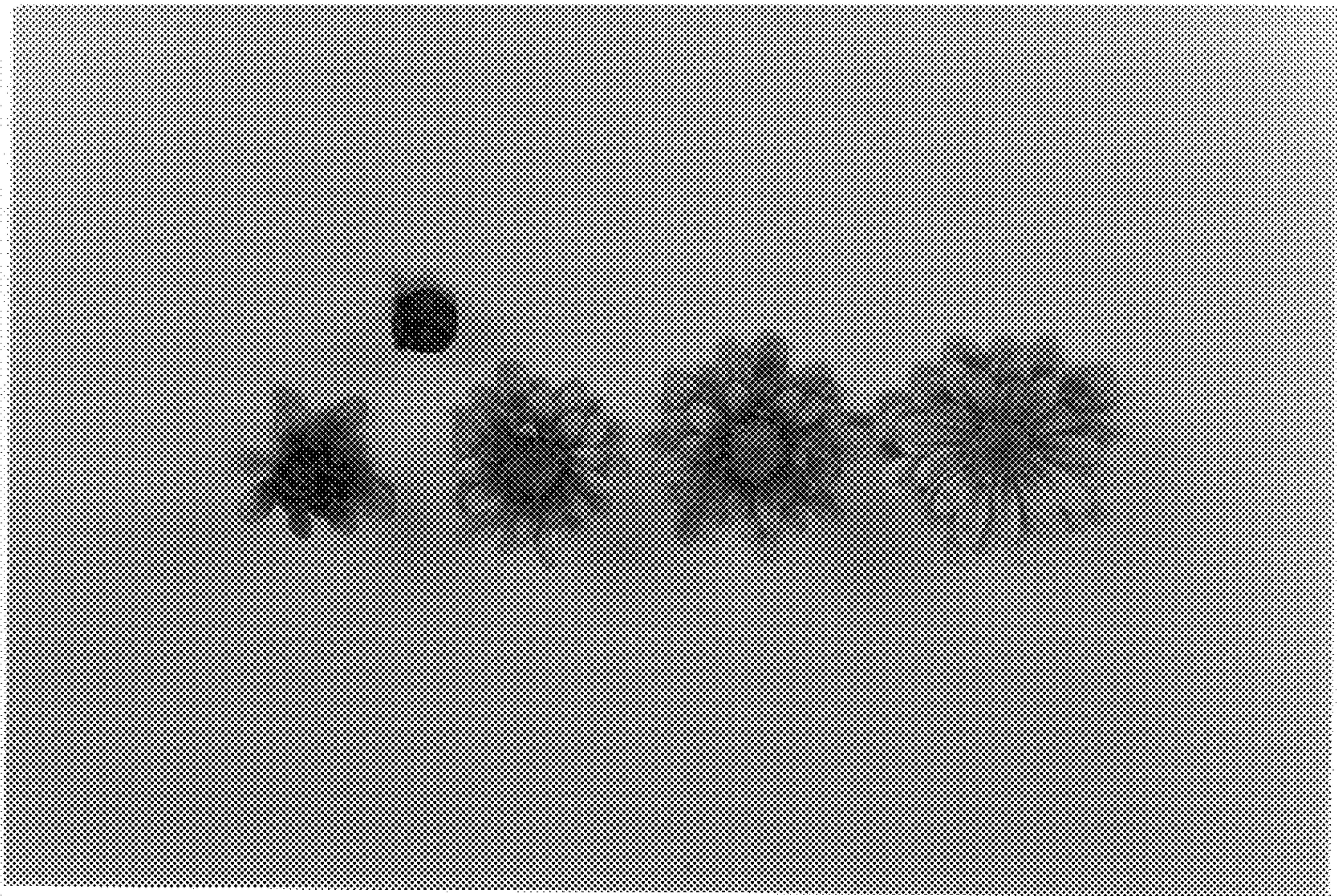


FIG. 2

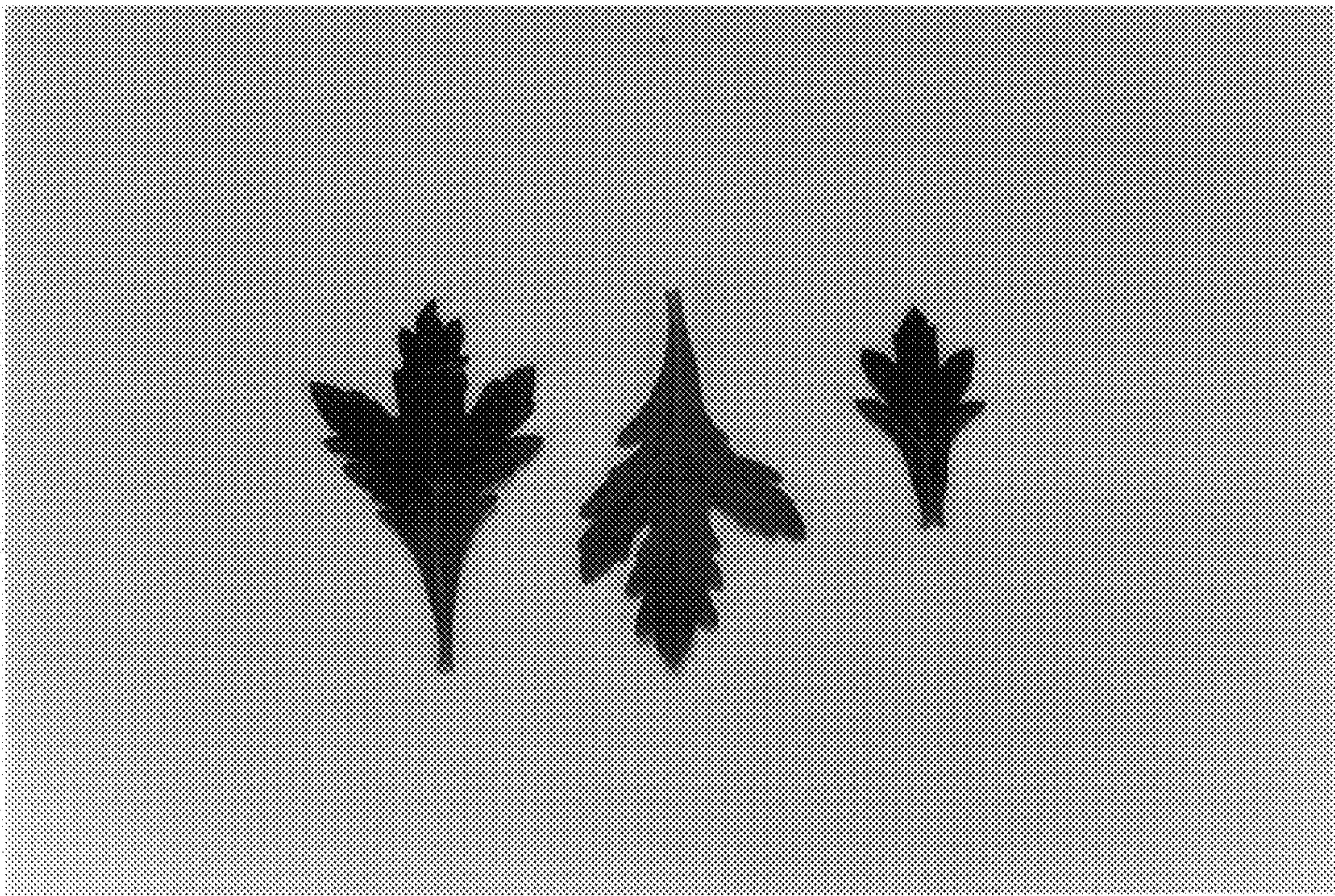


FIG. 3