



US00PP12919P2

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

(10) **Patent No.: US PP12,919 P2**
(45) **Date of Patent: Sep. 3, 2002**

(54) **CHRYSANTHEMUM NAMED ‘PLUTORES’**
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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.: **09/563,254**
(22) Filed: **May 1, 2000**
(51) Int. Cl.⁷ **A01H 5/00**
(52) U.S. Cl. **Plt./293**
(58) Field of Search **Plt./293**

(56) **References Cited**
PUBLICATIONS
UPOV-ROM GTITM Computer Database 2001/01, Feb. 6, 2001, GTI Jouve Retrieval Software, Citation for ‘Pluto’.*
* cited by examiner
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Assistant Examiner—Annette H. Para

(57) **ABSTRACT**
A chrysanthemum plant named ‘Plutores’ characterized by its small sized blooms with red ray florets and prolific branching; natural season flower date August 25–30; blooming for a period of 6 weeks.
2 Drawing Sheets

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BACKGROUND OF THE INVENTION

‘PLUTORES’ is a product of a breeding and selection program for outdoor pot mums (garden mums) which had the objective of creating new chrysanthemum cultivars with a decorative type flower, a natural season flower date around August 25–30; blooming for a period of 6 weeks. The new plant of the present invention comprises a new and distinct cultivar of Chrysanthemum plant ‘PLUTORES’ is a seedling resulting from the open pollination among groups of chrysanthemum cultivars maintained under the control of the inventor for breeding purposes. The new and distinct cultivar was discovered and selected as one flowering plant by Rob Noodeljik on a cultivated field in Rijsenhout Holland in September 1996. The plant has been asexually reproduced by cuttings in greenhouses at Rijsenhout Holland. 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 *dendranthema grandiflora*. The observations and measurements were gathered from plants grown out door in Rijsenhout, Holland under natural day length and temperature and planted week 22 in 1997 and 1998. The natural blooming date of this crop was August 25–30 (week 34). The plants were observed (directly) during the flowering of this crop. The observed plant was thus 12 weeks old. The average height of the plants was 27–30 cms. No growth retardants were used. No tests were done on cold or drought

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tolerance. This new variety produces small sized blooms with red ray florets.

From the cultivars known to inventor the most similar existing cultivar in comparison to ‘PLURORES’ is ‘BRAVO’. When ‘BRAVO’ and ‘PLUTORES’ are being compared the following differences are noticed: The differences of ‘BRAVO’ and ‘PLUTORES’ are (1) Natural flowering date. ‘PLUTORES’ flowers end of August, ‘BRAVO’ end of September. 2) Growth of ‘BRAVO’ is more compact. 3) Flowerform. The ray-florets of ‘BRAVO’ are more flat and there are no tubular ray-florets in the flower.

The following is a description of the plant and characteristics that distinguish ‘PLUTORES’ 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 1995.

Botanical classification: ‘PLUTORES’

Bud:

Size.—Medium; cross-section 1.0 cm. height 1.0 cm.
Outside color.—Red 45 A.
Involucral bracts.—2 rows, length 7 mm, width 3 mm.
Involucral bracts among disc-florets.—Not present.
Involucral bracts color.—Green 138 A.

Bloom:

Type.—Decorative.
Height.—Medium, (3.5 cm).
Size.—Small.
Fully expanded.—5.0–5.5 cm.
Number of blooms per branch.—Approx. 5 blooms per branch.
Performance (on the plant).—6 weeks.
Seeds.—Not produced.
Fragrance.—Typical chrysanthemum.

Color:
Center of flower.—Immature red 46 A. Mature red 45 A.
Color of the upper surface of the ray-florets.—Red 46 A.
Color of the lower surface of the ray-florets.—Red 47 A.
Tonality from distance.—A decorative garden mum with deep red flowers.
Discoloration to color.—Red 45 A.

Ray florets:
Texture.—Upper side and under side smooth.
Number.—160–180.
Cross-section.—Concave, a few outer ray-florets are tubular.
Longitudinal axis of the majority.—Straight.
Length of corolla tube.—Short to medium (0.4–1.0 cm).
Ray-floret margin.—Entire.
Ray-floret length.—2.5–2.8 cm.
Ray-floret width.—0.4–0.9 cm.
Ratio length/width.—High.
Shape of tip.—Dentate.
Disc florets.—None.
Disc diameter.—Not present.

Reproductive organs:
Stamen.—None.
Pollen.—None.
Styles.—Thin.
Style color.—Yellow-green 144 A.
Style length.—4 mm.
Stigmas.—Yellow-green 144 A.
Stigma width.—1 mm.
Ovaries.—Enclosed in calyx.

Plant:
Type.—A garden mum (pot mum) meant for out door use.
Growth habit.—Spreading.
Growth rate.—Rapid.
Height (from soil level).—27–30 cm.
Width.—30–32 cm.
Stem color.—Green 138 A.
Stem strength.—Weak.

Stem brittleness.—Absent.
Stem anthocyanin coloration.—Present.
Length of lateral brach.—From top to bottom 12–14 cm.
Lateral branch color.—Green 138 A.
Lateral branch, attachment.—Weak, not strong.
Branching (average number of lateral branches).—Prolific with 6–7 breaks after pinching.
Peduncle length.—3.5–4.0 cm.
Peduncle color.—Green 138 A.
Natural blooming date.—August 25–30.

Foliage:
Color.—Upper side green 137A. Under side green 138 A.
Size.—Small; length 5 cm width 4 cm.
Quantity (number per lateral branch).—13–15.
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.—Pointed.
Margin of sinus between lateral lobes.—Diverging.
Shape of base.—Attenuate.
Apex.—Mucronate.

Differences with the comparison varieties		
	'PLUTORES'	'BRAVO'
Natural flowering date	25–30 August	20–25 September
Growth	Rapid	Moderate
Cross section of ray-florets	Concave sometimes tubular	Flat to concave

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

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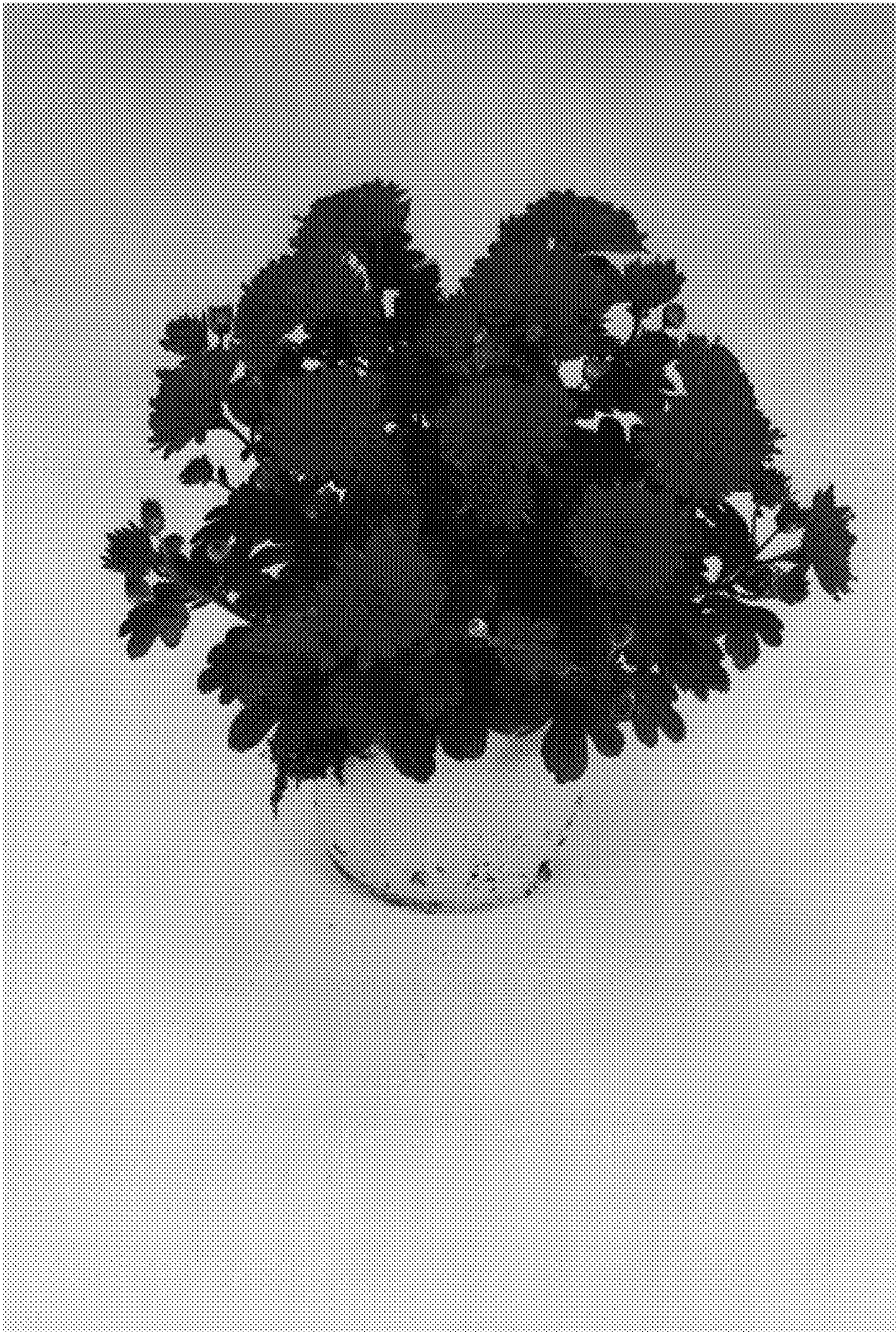


FIG. 1

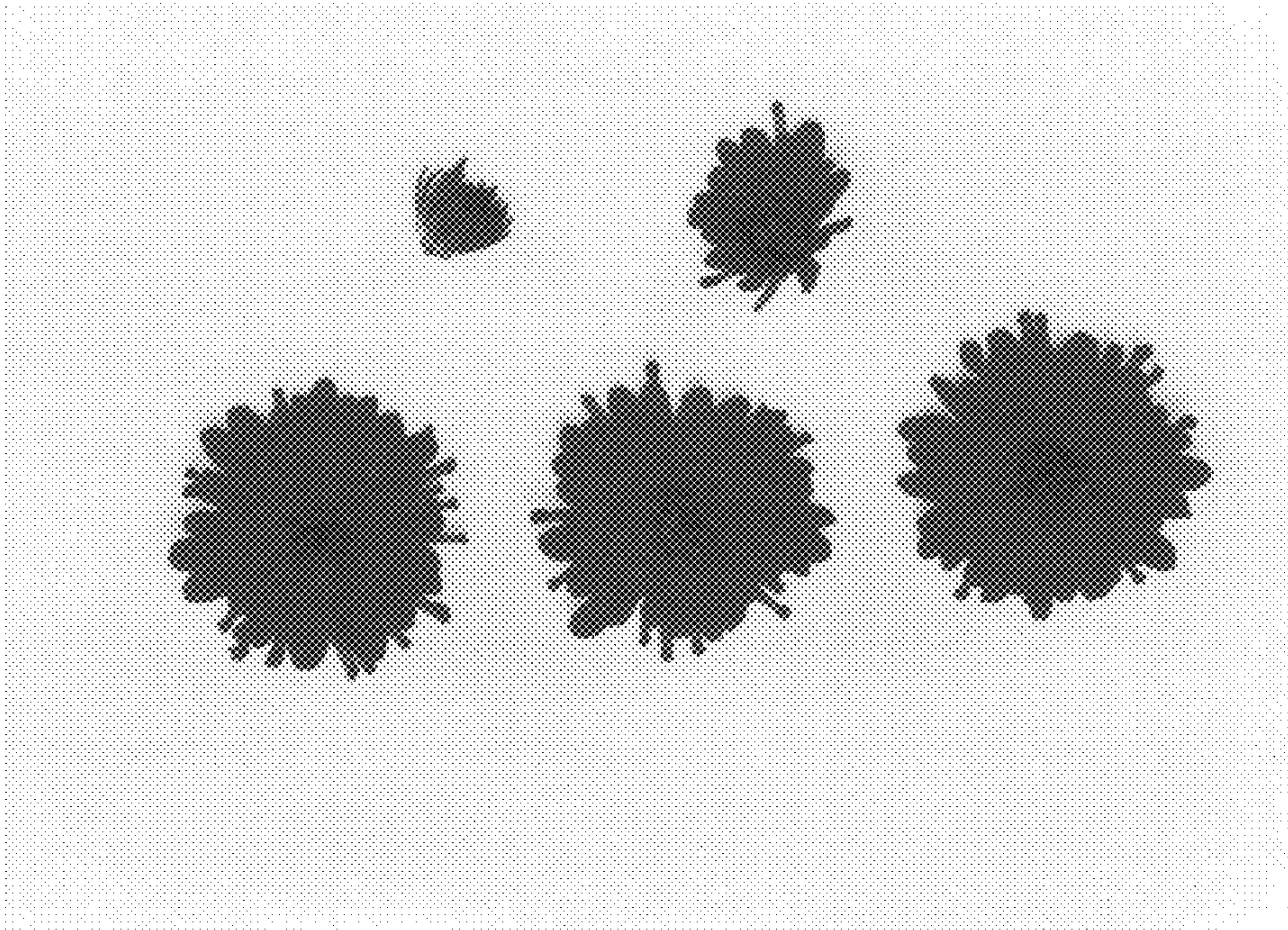


FIG. 2

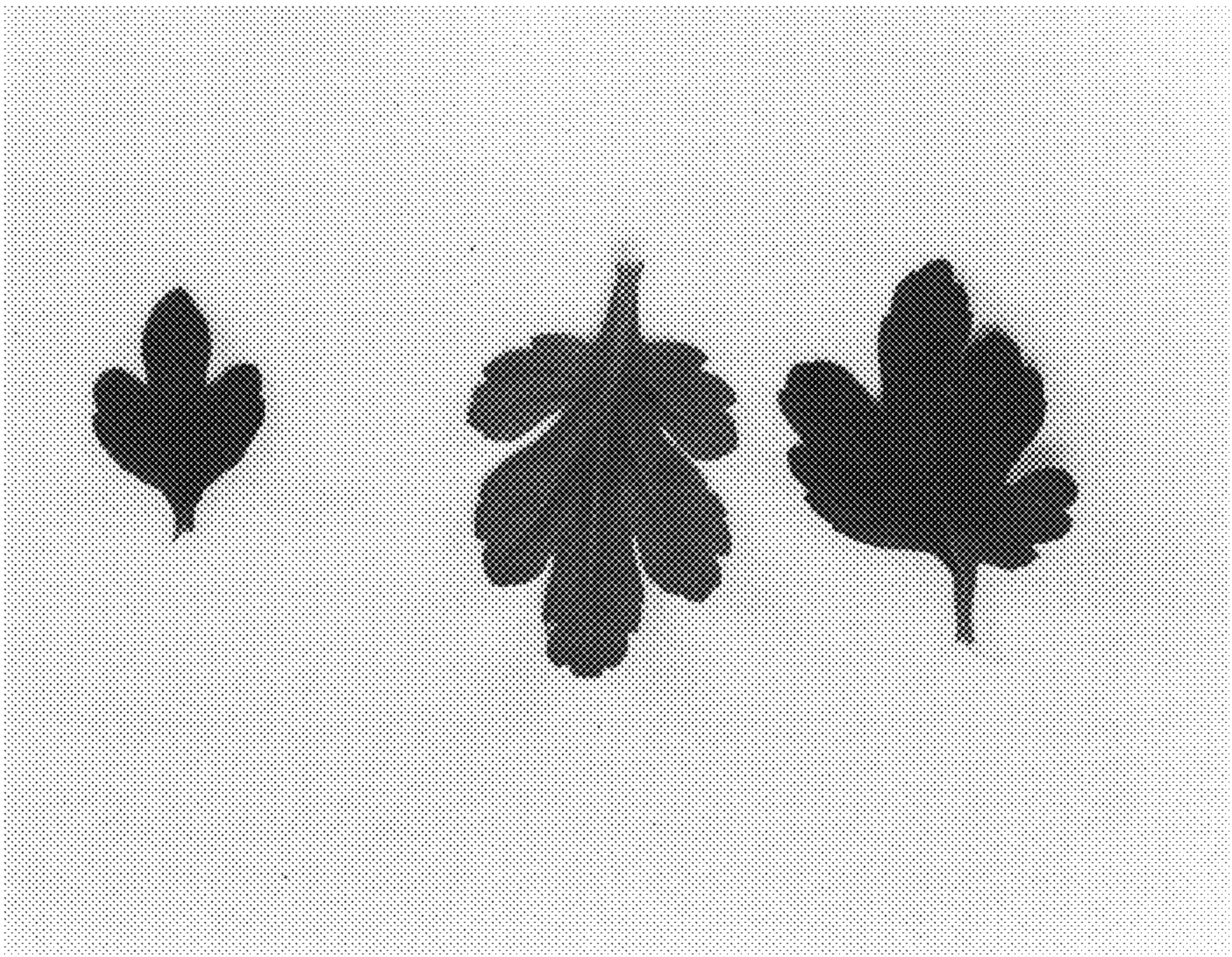


FIG. 3