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

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(54) **CHRYSANTHEMUM PLANT NAMED 'AMOR YELLOW WHITE'**

(50) Latin Name: ***Chrysanthemum morifolium***
Varietal Denomination: **Amor Yellow White**

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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 93 days.

(21) Appl. No.: **10/317,048**

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(51) **Int. Cl.**[7] **A01H 5/00**
(52) **U.S. Cl.** **Plt./287**
(58) **Field of Search** Plt./287

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(57) **ABSTRACT**

A chrysanthemum plant named 'Amor Yellow White' characterized by its medium sized blooms with white and yellow ray florets and prolific branching; natural season flower date 4–9 September; blooming for a period of 7 weeks.

3 Drawing Sheets

Related cultivars:

'Amor Yellow White' is related to 'Amor White' (#09/734,606). 'Amor Yellow White' is a color mutant of 'Amor White'.

BACKGROUND OF THE INVENTION

'Amor Yellow White' is a product of a breeding and selection program which had the objective of finding color mutants of 'Amor White'. The new plant of the present invention comprises a new and distinct cultivar of chrysanthemum plant that is a natural occuring sport of a parent chrysanthemum named 'Amor White' (#09/734.606). A comparison with Parent chrysanthemum 'Amor White' is also made in this application. The new cultivar was discovered as a sport in September 1999 by Rob Noodelijk in a controlled environment (greenhouse) in Rijsenhout Holland. The first act of asexual reproduction of 'Amor Yellow White' was accomplished when vegetative cuttings were taken from the initial selection in October 1999 in 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 petiole and foliage of the new cultivar.

DESCRIPTION OF THE INVENTION

This new variety of chrysanthemum is of the botanical classification *Chrysanthemum morifolium*. 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 2000 and 2001. The natural blooming date of this crop was 4–9 September (week 36). The average height of the plants was 30–35 cms. No growth retardants were used. No tests were done on disease or insects resistance or susceptibility. No tests were done on

cold or drought resistance. This new variety produces medium sized blooms with white ray florets and a yellow center blooming for a period of 7 weeks.

When 'Amor White' and 'Amor Yellow White' and are being compared the following differences and similarities are noticed: The differences of 'Amor White' and 'Amor Yellow White' are (1) Flower color and form and (2) Vigour. All other characteristics of 'Amor White' and 'Amor Yellow White' are similar

(1) Flower color. 'Amor Yellow White' is a color mutant of 'Amor White', bearing white blooms with a large yellow center instead of white blooms with a slightly yellow center when immature. Flower form. The ray-florets of 'Amor Yellow White' have spatulated tips, 'Amor White' has pointed ray-floret tips.

(2) Vigour: The plants of 'Amor Yellow White' tend to be a little less vigorous. The following is a description of the plant and characteristics that distinguish 'Amor Yellow White' 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.

Table 1: Botanical Description of Cultivar 'Amor Yellow White'

Bud:
Size.—Medium; cross-section 1.2 cm, height 1.0 cm.
Outside color.—Yellow 3B.
Involucral bracts.—2 rows, length 7 mm, width 3 mm.
Involucral bracts among disc-florets.—Not present.
Involucral bracts color.—Green 138 B.

Bloom:
Type.—Decorative.
Height.—High, 3.0–3.5 cm.
Size.—Medium.
Fully expanded.—5.0–5.5 cm.
Number of blooms per branch.—Approx. 5 blooms per branch.
Performance on the plant.—7 weeks.

Seeds (*if crossed*).—Produced in small quantities, ovate. Grey-brown 199 A, 1½ mm in length.
Fragrance.—Typical chrysanthemum, slight.

Color:

Center of the flower.—Immature Yellow 3A. Mature Yellow 3A.
Color of upper surface of the ray-florets.—Yellow 3A to White 155D at the (outer) end of the ray-florets.
Color of the lower surface of the ray-florets.—White 155D.
Tonality from distance.—A mounded decorative garden mum with white blooms.
Color of the upper surface of the flowers after aging of the plant.—Yellow 3A in the center to White 155D at the (outer) end of the ray-florets.

Ray florets:

Texture.—Upper and under side smooth.
Number.—180–200.
Cross-section.—Concave.
Longitudinal axis of majority.—Incurved to straight.
Length of corolla tube.—Medium, 0.9–1.1 cm.
Ray-floret margin.—Entire.
Ray-floret length.—2.5–2.8 cm.
Ray-floret width.—0.4–0.6 cm.
Ratio length / width.—High.
Shape of tip.—Spatulate.
Disc florets.—Not present.

Reproductive organs:

Stamen.—Not present.
Pollen.—Not present.
Styles.—Thin.
Style color.—Yellow-green 144 A.
Style length.—4 mm.
Stigma color.—Yellow-green 144 A.
Stigma width.—1 mm.
Ovaries.—Enclosed in calyx.

Plant:

Shape.—Grown as a spray-type pot-mum, outdoor mounded and round.
Growth habit.—Spreading.
Growth rate.—Moderate.
Height.—30–35 cm.
Width.—32–36 cm.
Stem color.—Green 138 B.
Stem strength.—Strong.
Stem brittleness.—Present.

Stem anthocyanin coloration.—Absent.
Length of lateral branch.—From top to bottom 12–14 cm.
Lateral branch color.—Green 138B.
Lateral branch, attachment.—Weak.
Branching (*average number of lateral branches*).—Mounding and prolific with 8–9 breaks after pinching.
Peduncle length.—3.5–4.5 cm.
Peduncle color.—Green 138 B.
Natural season blooming date.—4–9 September.

Foliage:

Color of mature leaves.—Upper side green 138 A. Under side green 138 B.
Color of immature leaves.—Upper side green 138 A. Under side green 138 B.
Size.—Small; length 6 cm, width 5 cm.
Quantity (*number per lateral branch*).—12–14.
Shape.—Oval.
Texture upper side.—Glabrous.
Texture under side.—Pubescent.
Venation arrangement.—Palmate.
Shape of the margin.—Serrated.
Shape of base of sinus between lateral lobes.—Acute.
Margin of sinus between lateral lobes.—Diverging.
Shape of base.—Asymmetric.
Apex.—Mucronate.

TABLE 2

Differences with the comparison varieties (when grown under the same conditions)

	'AMOR YELLOW WHITE'	'AMOR WHITE'
Flower color	Yellow 3A to White 155D at the end of the ray-florets	White 155D with a small pale yellow center (Yellow 8C)
Shape of tip of ray-florets	Spatulate	Pointed
Length of lateral branch	12–14 cm	14–15 cm
Plant height	30–35 cm	32–38 cm

I claim:

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

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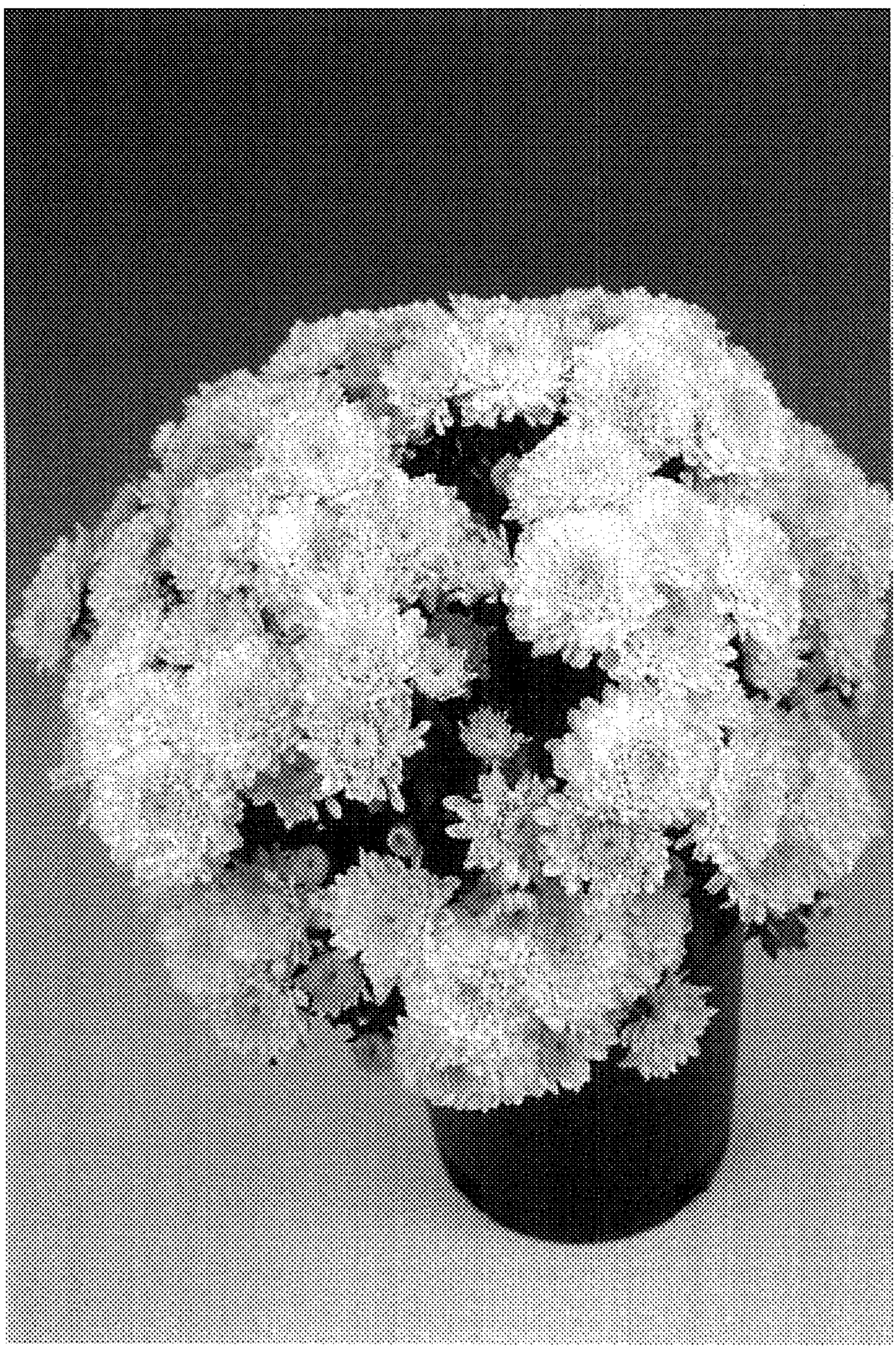

FIG. 1

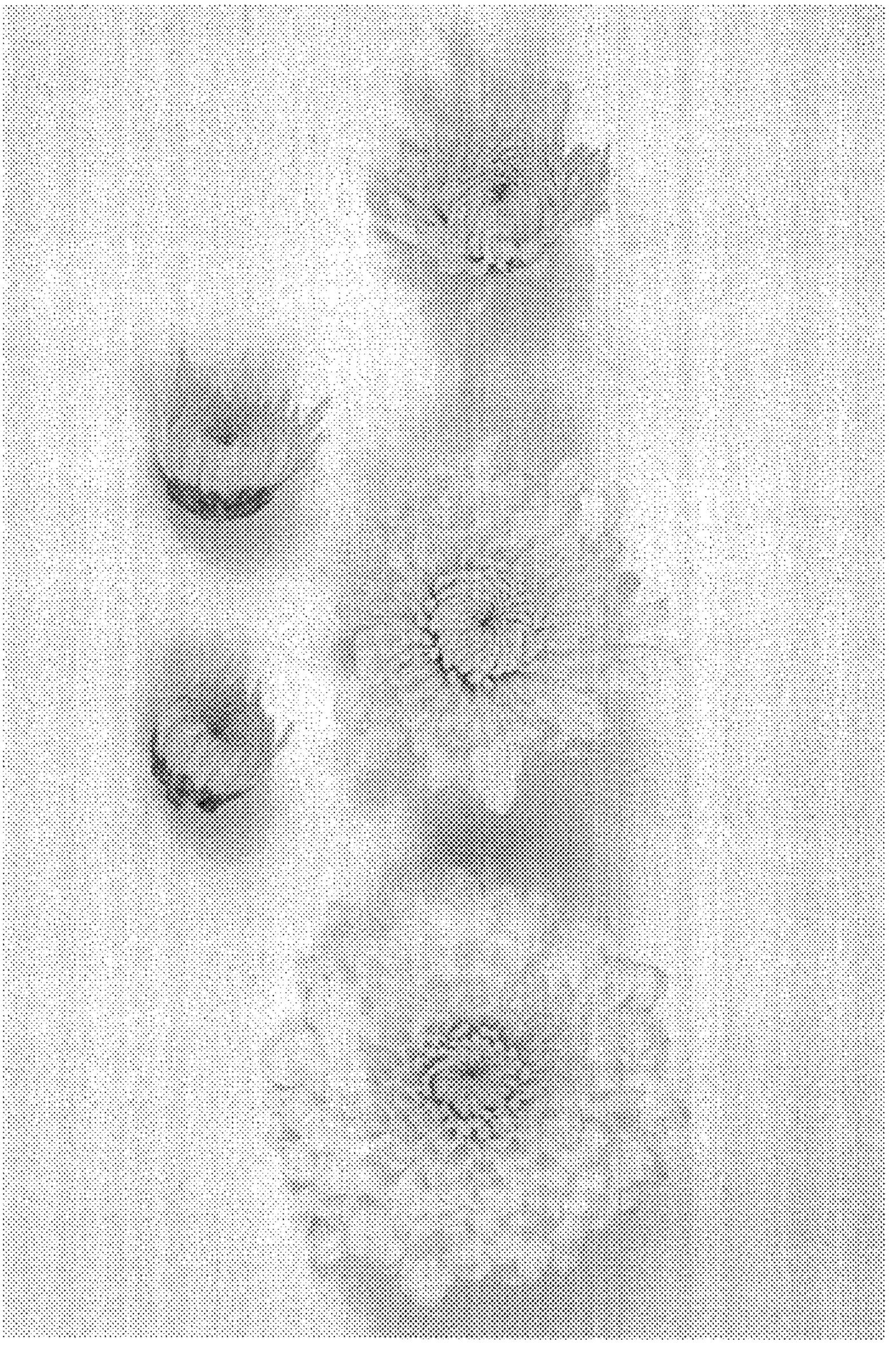

FIG. 2

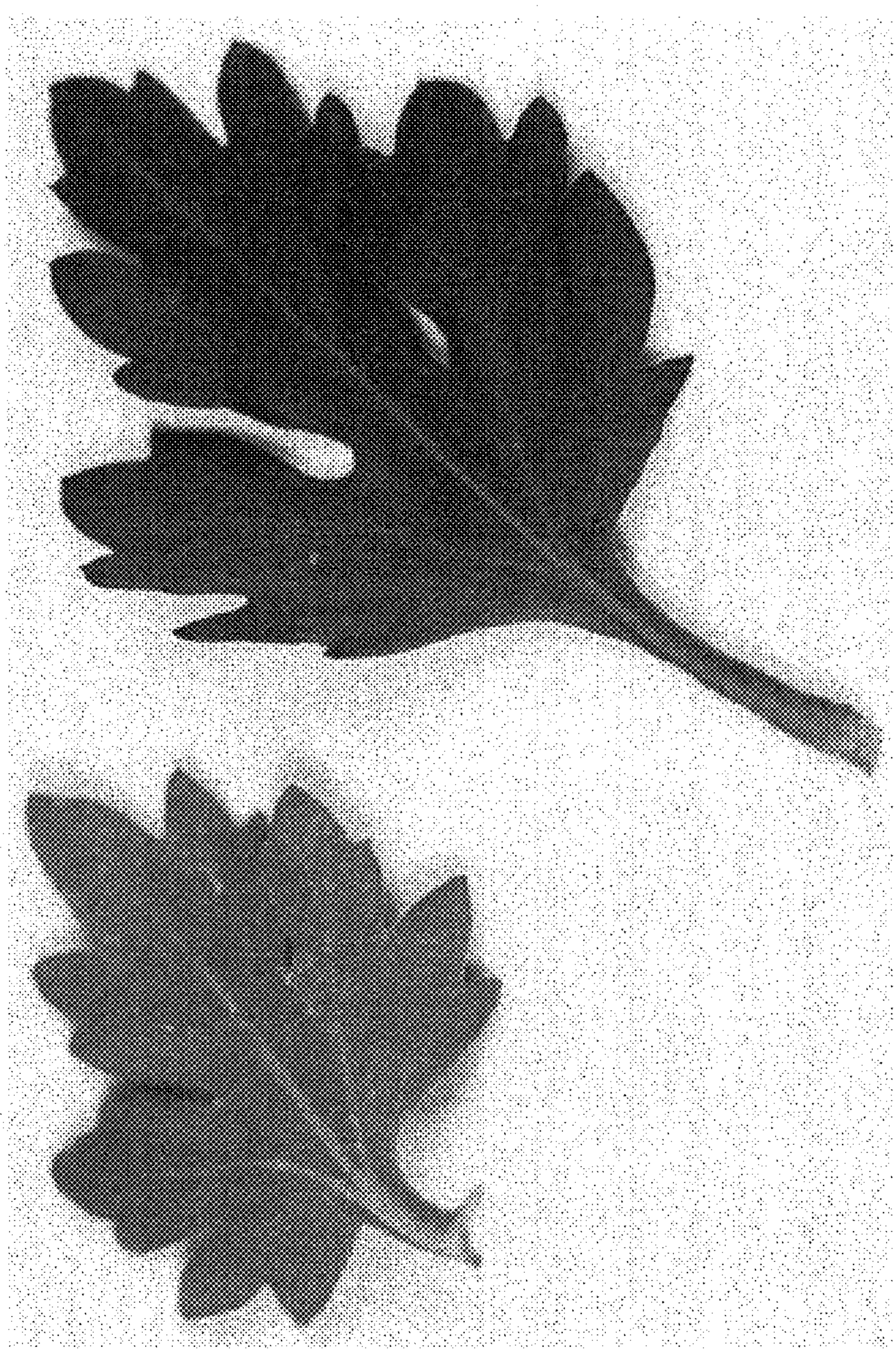

FIG. 3