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

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

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

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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 30 days.

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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 'Thetis' characterized by its medium sized blooms with yellow ray florets and prolific branching; natural season flower date August 19–24; blooming for a period of 5 weeks.

3 Drawing Sheets

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BACKGROUND OF THE INVENTION

'Thetis' 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 session flower date around August 19–24; blooming for a period of 5 weeks. The new plant of the present invention comprises a new and distinct cultivar of Chrysanthemum plant 'Thetis' 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 Noodelijk on a cultivated field in Rijsenhout Holland in August 2000. 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 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 August 19–24 (week 34). The average height of the plants was 26 cms. 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 and an orange center blooming for a period of 5 weeks.

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From the cultivars known to inventor the most similar existing cultivar in comparison to 'Thetis' is 'Dreamy Tracy' (U.S. Plant Pat. No. 9,772). When 'Dreamy Tracy' and 'Thetis' are being compared the following differences are noticed: The differences of 'Dreamy Tracy' and 'Thetis' are (1) Flower color (A) at immature stage. 'Thetis' has greyed-orange inner ray-florets, while those of 'Dreamy Tracy' are completely Yellow. (B) At mature stage. The color of 'THETIS' is more intense yellow. (2) Natural flowering date. 'Thetis' flowers earlier than 'Dreamy Tracy'.

The following is a description of the plant and characteristics that distinguish 'Thetis' 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 'Thetis'

Bud:

Size.—Small; cross-section 0.7 cm, height 0.9 cm.

Outside color.—Yellow 13 A.

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 (pompom).

Height.—Medium. 1.5 cm.

Size.—Small.

Fully expanded.—3.5–4.0 cm.

Number of blooms per branch.—Approx. 5–7 blooms per branch.

Performance on the plant.—5 weeks.

Seeds.—Produced in small quantities, ovate grey-brown 199A, 1½ mm in length.

Fragrance.—Typical chrysanthemum, slightly.

Color:

Center of the flower (disc-florets).—Immature yellow 13A with greyed-orange 170 A at the tips. Mature yellow 12A.

Color of upper surface of the ray-florets.—Immature inner ray-florets greyed-orange 170 A, outer ray-florets yellow 12 A. Mature (all ray florets) yellow 12 A.

Color of the lower surface of the ray-florets.—Yellow 12 A.

Tonality from distance.—A garden mum with yellow flowers and an orange disc.

Color of the upper surface after aging of the plant.—Yellow 12 A.

Ray florets:

Texture.—Upper and under side smooth.

Number.—130–140.

Cross-section.—Concave.

Longitudinal axis of majority.—Reflexing.

Length of corolla tube.—Medium. 0.4 cm.

Ray-floret margin.—Entire.

Ray-floret length.—1.2 cm.

Ray-floret width.—0.6 cm.

Ratio length/width.—Medium.

Shape of tip.—Rounded.

Disc florets:

Disc diameter.—0.7 cm.

Distribution of disc florets.—Numerous, visible at mature stage.

Shape.—Tubular.

Color.—Yellow 13 A.

Receptacle shape.—Conical raised.

Reproductive organs:

Stamen (present in disc florets only).—Thin. 3 mm in length.

Stamen color.—Yellow-green 144 A.

Pollen.—Sometimes present.

Pollen color.—Yellow 7A.

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.—When grown as spray type pot mum, outdoor mounded and round.

Growth habit.—Spreading.

Growth rate.—Moderate.

Height.—26 cm.

Width.—38–40 cm.

Stem color.—Yellow-green 147 B

Stem strength.—Strong.

Stem brittleness.—Present.

Stem anthocyanin coloration.—Absent.

Length of lateral branch.—From top to bottom 11–12 cm.

Lateral branch color.—Yellow-green 147 B.

Lateral branch, attachment.—Brittle.

Branching (average number of lateral branches).—Good with 7–8 breaks after pinching.

Peduncle length.—4.5–6.0 cm.

Peduncle color.—Yellow-green 147 B.

Natural season blooming date.—August 19–24.

Foliage:

Color.—Upper side yellow-green 147B. Under side yellow-green 147C.

Size.—Medium; length 6.5 cm, width 5.0 cm.

Quantity (number per lateral branch).—8–9.

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.—Acute.

Margin of sinus between lateral lobes.—Diverging.

Shape of base.—Truncate.

Apex.—Mucronate.

TABLE 2

<u>Differences with the comparison varieties</u>		
	<u>'THETIS'</u>	<u>'DREAMY TRACY'</u>
Color of the upper surface of the inner ray-florets at an immature stage	Greyed-orange 170 A	Yellow 8 A
Color of the upper surface of the inner ray-florets at a mature stage	Yellow 12 A	Yellow 8A
Natural flowering date	August 19–24	September 20–27

I claim:

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

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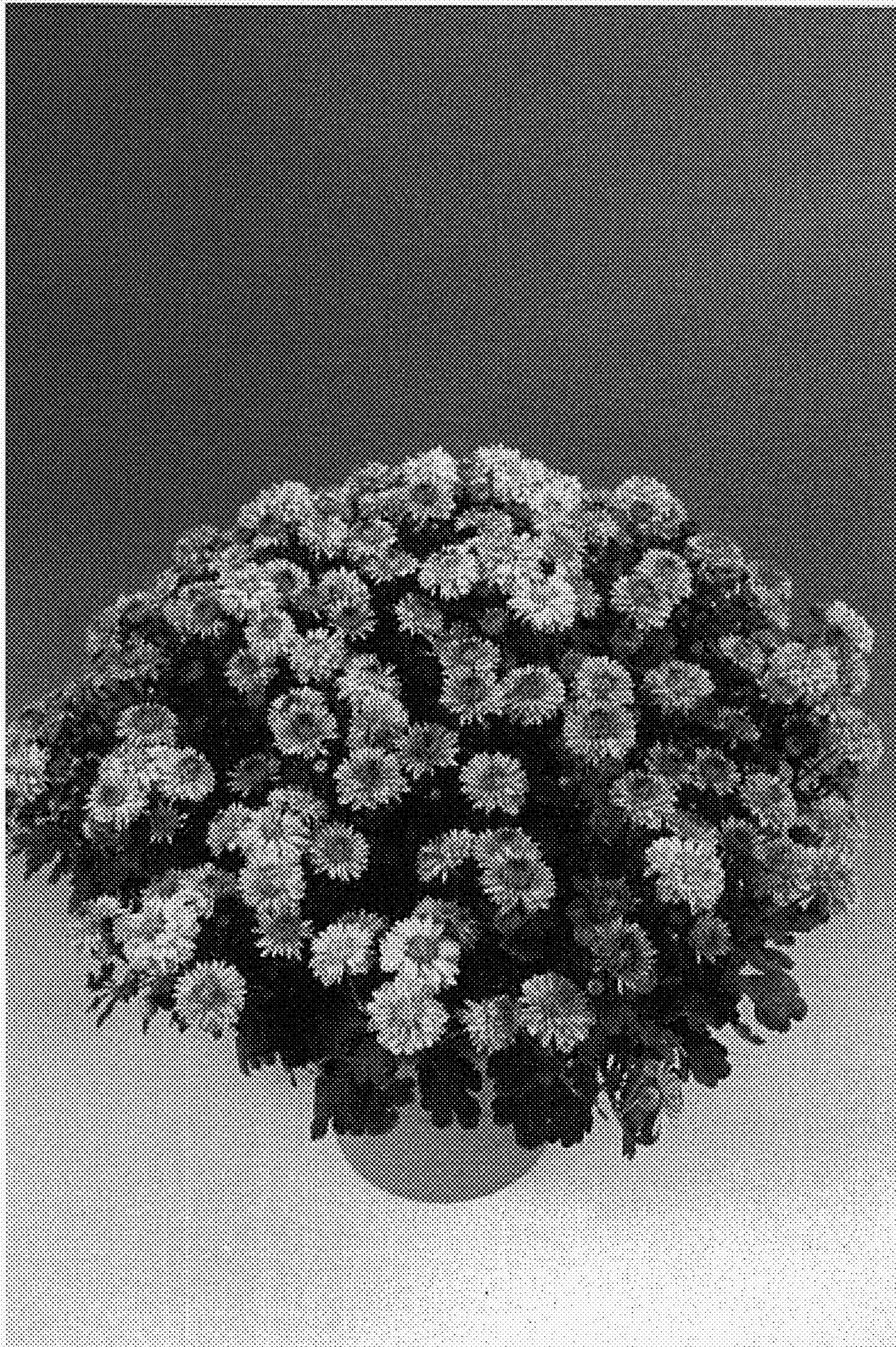


FIG. 1

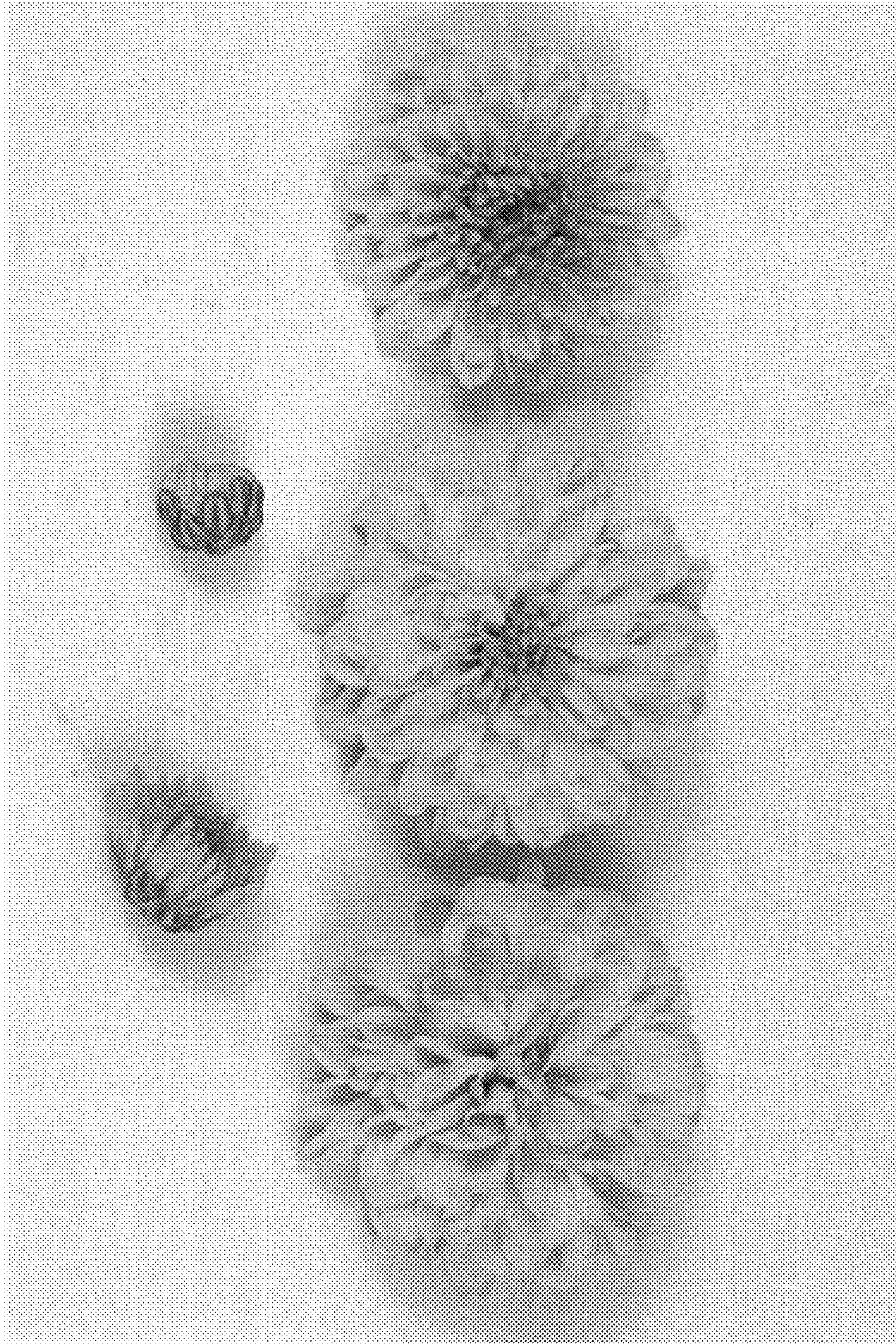


FIG. 2



FIG. 3