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

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

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

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
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(58) **Field of Search Plt./287, 290**

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(57) **ABSTRACT**

A *Chrysanthemum* plant named 'Estrada' characterized by
its medium sized blooms with salmon ray florets and prolific
branching; natural season flower date September 15–20;
blooming for a period of 5 weeks.

2 Drawing Sheets

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BACKGROUND OF THE INVENTION

'Estrada' 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 deco-
rative type flower, a natural season flower date around
September 15–20; blooming for a period of 5 weeks. The
new plant of the present invention comprises a new and
distinct cultivar of *Chrysanthemum* plant 'Estrada' 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 Mark Roland Boeder on a cultivated field in Rijsenhout
Holland in September 2001. The seedling resulted from the
crossing of the female parent, 95.3002-00, with a mixed
population of *Chrysanthemum* plants serving as male par-
ents. 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 photo-
graphs of this type.

FIG. 1 shows a plant of the cultivar in full bloom.

FIG. 2 shows the various stages of bloom 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 in week 23 in 2002. The natural
blooming date of this crop was September 15–20 (week 38).
The average height of the plants was 35 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

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blooms with salmon ray florets blooming for a period of 5
weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Estrada' is 'Cefreya'
(U.S. Plant patent application Ser. No. 10/316,870). When
'Cefreya' and 'Estrada' are being compared the following
differences are noticed: The differences of 'Cefreya' and
'Estrada' are (1) Presence of disc-florets. There are no
disc-florets present in 'Cefreya', while a small number of
disc florets can be distinguished in mature flowers of
'Estrada'. (2) Longitudinal axis of majority of ray florets.
The axis is reflexing to twisted for 'Cefreya', while the axis
is straight in 'Estrada'.

The following is a description of the plant and character-
istics that distinguish 'Estrada' 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 of cultivar 'Estrada'

Bud

Size	Small; cross-section 0.6 cm, height 0.5 cm
Outside Color	Yellow-green 145C
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Yellow-green 147C

Bloom

Type	Decorative
Size	Medium
Fully Expanded	5 cm
Peduncle length	10 cm
Peduncle color	Yellow-green 147C
Number of blooms per branch	Approx. 8 blooms per branch
Performance on the plant	5 weeks
Seeds	Produced in small quantities, ovate grey- brown 199A, 1½ mm in length.

TABLE 1-continued

Botanical Description of cultivar ‘Estrada’	
Fragrance	Typical <i>chrysanthemum</i> , slightly
<u>Color</u>	
Center of the flower	Immature Greyed-red 179C Mature Greyed-red 179C
Color of upper surface of the ray-florets	Red 39C
Color of the lower surface of the ray-florets	Orange 29C
Tonality from Distance	A garden mum with salmon flowers
Color of ray florets after aging of the plant	Red 39C
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	180
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	0.6 cm
Ray-floret margin	Entire
Ray-floret length	2.3 cm
Ray-floret width	0.6 cm
Ratio length/width	Medium
Shape of tip	Rounded
<u>Disc florets</u>	
Disc diameter	0.3 cm
Distribution of disc florets	Few, only present in mature flowers
Shape	Tubular
Color	Yellow-green 145B
Receptacle shape	Domed raised
<u>Reproductive Organs</u>	
Stamen	Present only in disc florets
Pollen	Produced in small quantity
Pollen color	Yellow 7A
Styles	Thick
Style color	Yellow 13A
Style Length	4 mm
Stigma color	Yellow-green 144A
Stigma Width	1 mm
Ovaries	Enclosed in calyx
<u>Plant</u>	
Form	A garden mum outdoor mounded and round
Growth habit	Spreading
Growth rate	Intermediate
Height	35 cm
Width	40 cm
Stem Color	Yellow-green 148D
Stem Strength	Strong
Stem Brittleness	Brittle

TABLE 1-continued

Botanical Description of cultivar ‘Estrada’	
Stem Anthocyanin	Absent
Coloration	
Internode length	2.5 cm
Length of lateral branch	From top to bottom 8 cm
Lateral branch color	Yellow-green 147D
Lateral branch, attachment	Strong
Branching (average number of lateral branches)	Good with 7 breaks after pinching
Natural season blooming date	September 15–20
<u>Foliage</u>	
Leaf color	Upper side Yellow-green 147B Under side Yellow-green 148C
Color midvein	Upper side Green 139D Under side Yellow-green 147D
Size	Medium; length 5.5 cm, width 2.5 cm
Quantity (number per lateral branch)	15
Shape	Cordiform
Texture upper side	Glabrous
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Serrated
Shape of Base of Sinus	Rounded
Between Lateral Lobes	
Margin of Sinus Between	Diverging
Lateral Lobes	
Shape of Base	Obtuse
Apex	Mucronate
Petiole length	1.5 cm
Petiole color	Green 139D

TABLE 2

Differences with the comparison variety		
	‘Estrada’	‘Cefreya’
Presence of disc florets in mature flowers	Few	None
Longitudinal axis of ray florets	Straight	Reflexing to twisted

I claim:

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

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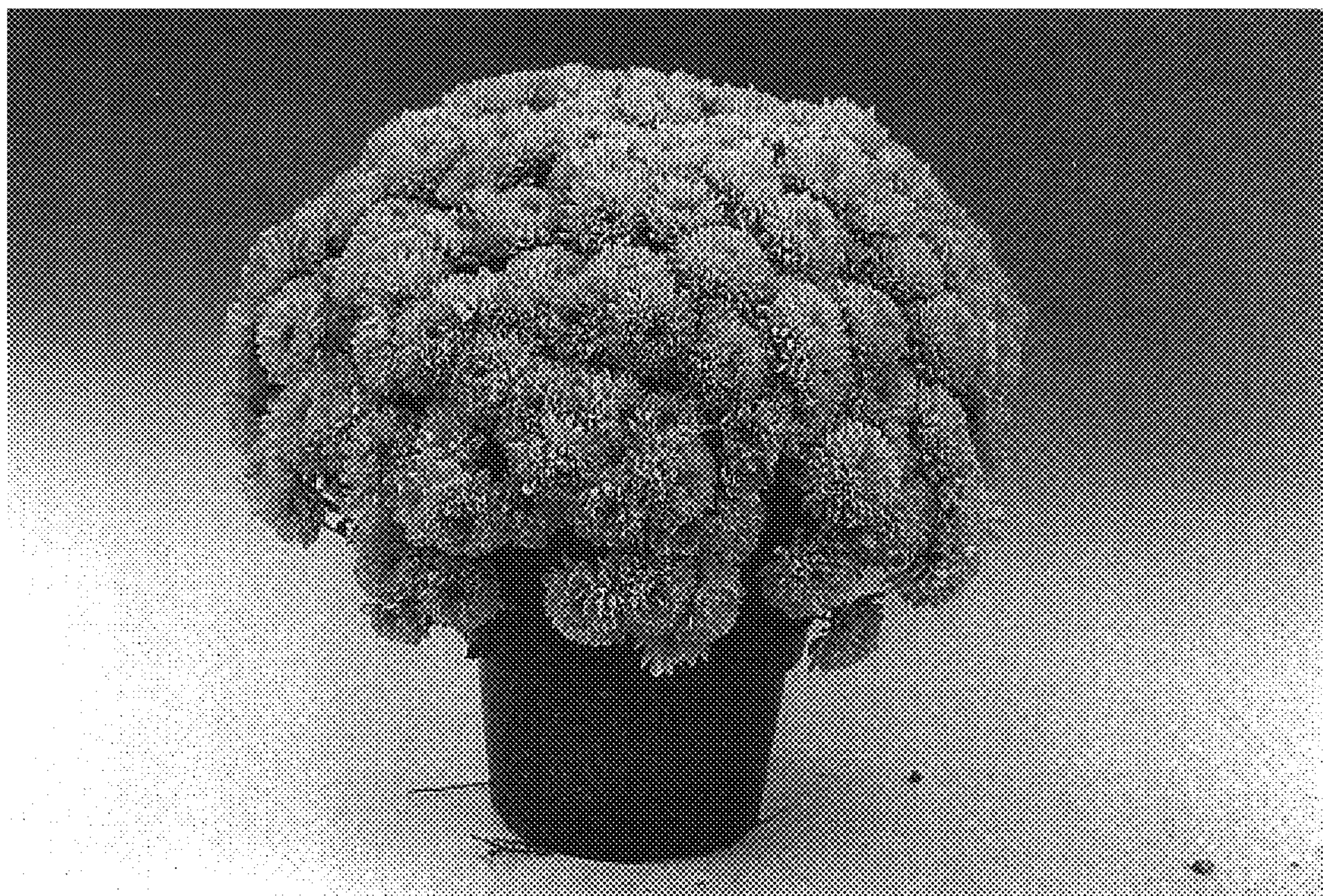


FIG. 1

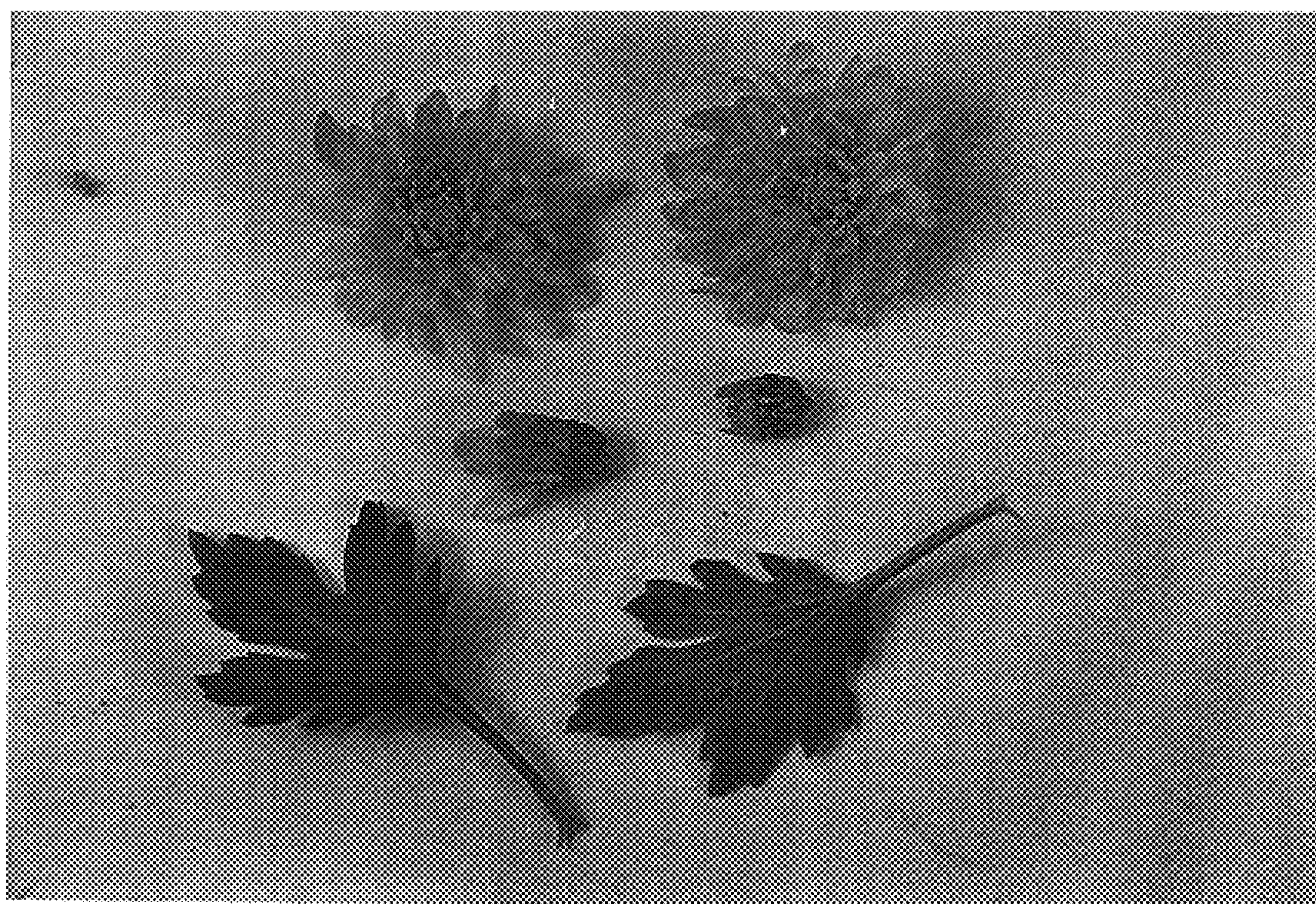


FIG. 2