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Noodelijk

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[54] CHRYSANTHEMUM PLANT NAMED
‘REFOCUS’

[75] Inventor: Robert Noodelijk, Woubrugge,
Netherlands

[73] Assignee: Chrysanthemum Breeders Association
N.V., Netherlands

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[52] U.S. Cl. Plt./286
[58] Field of Search Plt./286, 298

Primary Examiner—Howard J. Locker
Attorney, Agent, or Firm—Parkhurst & Wendel, L.L.P.

[57] ABSTRACT

A chrysanthemum plant named Refocus characterized by its small sized blooms with purple ray florets and green-yellow disc florets.

2 Drawing Sheets

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The present invention is related to the plants in the following co-pending applications:

Application no.	Filing Date	Title
09/149,299	29/09/98	Pink Refocus
09/149,460	09/09/98	Red Refocus
09/149,657	09/09/98	White Refocus

BACKGROUND OF THE INVENTION

The new plant of the present invention comprises a new and distinct cultivar of chrysanthemum plant that was discovered and selected as one flowering plant within the progeny of a cross of a female parent chrysanthemum cultivar named ‘Recette’ (not patentd) and a male parent chrysanthemum named ‘Rex’ (not patented) by Rob Noodelijk in May, 1992.

The first act of asexual reproduction of Refocus was accomplished when vegetative cuttings were taken from the initial selection in August, 1992 in a controlled environment in Ter Aar, Holland.

SUMMARY OF THE INVENTION

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

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 the stem 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 *Dendranthema grandiflora*. When grown in the vicinity of Ter Aar, Holland, it has a response time of approximately 8 weeks. This new variety produces small sized blooms with purple ray florets and green-yellow disc florets having a 3 week performance (i.e., vase life of 21 days). This new variety of chrysanthemum has been found

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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 Refocus and be planted year round under greenhouse conditions in Holland.

The following is a description of the plant and characteristics that distinguish Refocus as a new and distinct variety.

The color designations (color designations are from the R.H.S. Colour Chart) 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.

Botanical Description of Refocus, Pink Refocus, Red Refocus and White Refocus	
CULTIVAR	REFOCUS
<u>Bud</u>	
Size	medium, cross section ± 1.2 cm, height ± 1.2 cm
<u>Outside Color</u>	
Bloom	red-purple 70A
Size	small
Fully Expanded	4–4 1/2 cm
Borne	upper portion single flower per peduncle, lower portion plural flower per peduncle
Number of Blooms per single stem	average of 10
Peduncle Lengths	near the top ± 10 cm, near the middle 20 cm, near the bottom 20 cm
Peduncle Lateral Shoot, Attachment	medium
Peduncle Lateral Shoot, Angle	30°–35°
Form	single (daisy)
Performance (blooming period)	good, 21 days (18°–20° C.)
<u>Color</u>	
Center of Flower/disc floret	yellow-green 145A at an early stage of inflorescence, mature yellow-orange 14B
Color of upper surface of the majority of the ray-florets	red-purple 71C
Color of lower surface of the majority of the ray-florets	purple violet 80D
Tonality from Distance	
Discoloration	a small purple daisy ray florets to red-purple 72D
Pollen	yellow-orange 14A

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Botanical Description of Refocus, Pink Refocus, Red Refocus and White Refocus	
<u>Ray florets</u>	
Texture	upper side dsmooth, under side smooth
Number	35–40 (2–3 rows)
Cross-section	concave
Longitudinal axis of majority	straight
Shape of tip	pointed
Fragrance	typical chrysanthemum
Disc Diameter	small to medium (1.0–1.2 cm)
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	yellow-green, thin, ± 4 mm in length
Pollen	present, abundant
Styles (present in both ray and disc florets)	yellow-green, thin
Style length	± 4 mm
Stigmas	yellow
Stigma Width	± 1 mm
Ovaries	enclosed in calyx
<u>Plant</u>	
Growth	short to medium
Height	± 95–100 cm
Stem color	yellow-green 146B
Stem Strength	strong
Stem Brittleness	present
Stem Anthocyanin Coloration	absent
Internodes	short (1.5–2.0 cm)
Flowering Response (photoperiodic controlled crop, no natural growing)	8 weeks
<u>Foliage</u>	
Color	upperside yellow-green 147A underside yellow-green 147B
Size	length 9 cm, width 6 cm
Quantity (per single stem)	28–32
Shape	egg-shaped
Texture	fleshy
Ribs and Veins	both ribs and veins well developed
Edge	crenated
Shape of Base of Sinus Between Lateral Lobes	round
Margin of Sinus Between Lateral Lobes	converging
Shape of Base	rounded
Apex	mucronate
Year of Discovery	1992
<u>CULTIVAR</u> PINK REFOCUS	
<u>Bud</u>	
Size	medium, cross section ± 1.2 cm, height ± 1.2 cm
Outside Color	red-purple 58B
<u>Bloom</u>	
Size	small
Fully Expanded	4–5 cm
Borne	upper portion single flower per peduncle, lower portion plural flower per peduncle
Number of Blooms per single stem	average of 10
Peduncle Lengths	near the top ± 10 cm, near the middle 20 cm, near the bottom 20 cm
Peduncle Lateral Shoot, Attachment	medium to strong
Peduncle Lateral Shoot, Angle	30°–35°
Form	single (daisy)
Performance (blooming period)	good, 21 days (18°–20° C.)

-continued

Botanical Description of Refocus, Pink Refocus, Red Refocus and White Refocus	
<u>Color</u>	
Center of Flower/disc floret	yellow-green 144B at an early stage of inflorescence, mature yellow-orange 14B near red-purple 58C
Color of upper surface of the majority of the ray-florets	
Color of lower surface of the majority of the ray-florets	red-purple 58C
Tonality from Distance	a small pink/purple daisy
Discoloration	ray florets to red-purple 58D
Pollen	yellow-orange 14A
<u>Ray florets</u>	
Texture	upper side dsmooth, under side smooth
Number	38–45 (3 rows)
Cross-section	concave
Longitudinal axis of majority	straight
Shape of tip	pointed
Fragrance	typical chrysanthemum
Disc Diameter	small to medium (1.0–1.2 cm)
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	yellow-green, thin, ± 4 mm in length
Pollen	present, abundant
Styles (present in both ray and disc florets)	yellow-green, thin
Style length	± 4 mm
Stigmas	yellow
Stigma Width	± 1 mm
Ovaries	enclosed in calyx
<u>Plant</u>	
Form	spray mum meant for erect culture. Herbaceous
Growth	short to medium
Height	± 100–105 cm
Stem color	yellow-green 146B
Stem Strength	strong
Stem Brittleness	absent
Stem Anthocyanin Coloration	present
Internodes	short (1.5–2.0 cm)
Flowering Response (photoperiodic controlled crop, no natural growing)	8 weeks
<u>Foliage</u>	
Color	upperside yellow-green 147A underside yellow-green 147B
Size	length 9 cm, width 6 cm
Quantity (per single stem)	28–32
Shape	egg-shaped
Texture	fleshy
Ribs and Veins	both ribs and veins well developed
Edge	crenated
Shape of Base of Sinus Between Lateral Lobes	round
Margin of Sinus Between Lateral Lobes	converging
Shape of Base	rounded
Apex	cuspidate
Year of Discovery	1993
<u>CULTIVAR</u> RED REFOCUS	
<u>Bud</u>	
Size	Small, cross section ± 1.0 cm, height ± 1.0 cm
Outside Color	red 46B

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Botanical Description of Refocus, Pink Refocus, Red Refocus and White Refocus	
<u>Bloom</u>	
Size	small
Fully Expanded	4–4 1/2 cm
Borne	upper portion single flower per peduncle, lower portion plural flower per peduncle
Number of Blooms per single stem	average of 10
Peduncle Lengths	near the top ± 10 cm, near the middle 20 cm, near the bottom 20 cm
Peduncle Lateral Shoot, Attachment	medium
Peduncle Lateral Shoot, Angle	30°
Form	single (daisy)
Performance (blooming period)	good, 21 days (18°–20° C.)
<u>Color</u>	
Center of Flower/disc floret	yellow-green 144B at an early stage of inflorescence, mature yellow-orange 14B
Color of upper surface of the majority of the ray-florets	red 45A
Color of lower surface of the majority of the ray-florets	red 45C
Tonality from Distance	a small red daisy
Discoloration	ray florets to red 45C
Pollen	yellow-orange 14A
<u>Ray florets</u>	
Texture	upper side dsmooth, under side smooth
Number	35–40 (2–3 rows)
Cross-section	concave
Longitudinal axis of majority	straight
Shape of tip	pointed
Fragrance	typical chrysanthemum
Disc Diameter	small to medium (1.0–1.2 cm)
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	yellow-green, thin, ± 4 mm in length
Pollen	present, abundant
Styles (present in both ray and disc florets)	yellow-green, thin
Style length	± 4 mm
Stigmas	yellow
Stigma Width	± 1 mm
Ovaries	enclosed in calyx
<u>Plant</u>	
Form	spray mum meant for erect culture. Herbaceous
Growth	short to medium
Height	± 95–100 cm
Stem color	yellow-green 146B
Stem Strength	strong
Stem Brittleness	absent
Stem Anthocyanin Coloration	present
Internodes	short (1.5–2.0 cm)
Flowering Response (photoperiodic controlled crop, no natural growing)	8 weeks
<u>Foliage</u>	
Color	upperside yellow-green 147A underside yellow-green 147B
Size	length 10 cm, width 7 cm
Quantity (per single stem)	28–32
Shape	egg-shaped
Texture	fleshy
Ribs and Veins	both ribs and veins well developed
Edge	crenated
Shape of Base of Sinus	round

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Botanical Description of Refocus, Pink Refocus, Red Refocus and White Refocus	
Between Lateral Lobes	
Margin of Sinus Between Lateral Lobes	converging
Shape of Base	rounded
Apex	mucronate
Year of Discovery	1993
CULTIVAR	WHITE REFOCUS
<u>Bud</u>	
Size	medium, cross section ± 1.5 cm, height ± 1.0 cm
Outside Color	yellow-orange 20D
<u>Bloom</u>	
Size	small
Fully Expanded	3 1/2–4 cm
Borne	upper portion single flower per peduncle, lower portion plural flower per peduncle
Number of Blooms per single stem	average of 10
Peduncle Lengths	near the top ± 10 cm, near the middle 20 cm, near the bottom 20 cm
Peduncle Lateral Shoot, Attachment	medium
Peduncle Lateral Shoot, Angle	30°–35°
Form	single (daisy)
Performance (blooming period)	good, 21 days (18°–20° C.)
<u>Color</u>	
Center of Flower/disc floret	yellow-green 144A at an early stage of inflorescence, mature yellow-orange 14B
Color of upper surface of the majority of the ray-florets	pure white 155D (but whiter)
Color of lower surface of the majority of the ray-florets	pure white 155D (but whiter)
Tonality from Distance	a clear white small daisy
Discoloration	ray florets none, disc florets to yellow- orange 14B
Pollen	none
<u>Ray florets</u>	
Texture	upper side dsmooth, under side smooth
Number	22–26 (2 rows)
Cross-section	convex (no keels)
Longitudinal axis of majority	reflexing
Shape of tip	rounded
Fragrance	typical chrysanthemum
Disc Diameter	small to medium (1.2–1.5 cm)
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	yellow-green, thin, ± 4 mm in length
Pollen	not present
Styles (present in both ray and disc florets)	yellow-green, thin
Style length	± 4 mm
Stigmas	yellow
Stigma Width	± 1 mm
Ovaries	enclosed in calyx
<u>Plant</u>	
Form	spray mum meant for erect. Herbaceous
Growth	short to medium
Height	±100–105 cm
Stem color	yellow-green 147B
Stem Strength	strong
Stem Brittleness	present
Stem Anthocyanin Coloration	present
Internodes	short (1.5–2.0 cm)

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Botanical Description of Refocus, Pink Refocus, Red Refocus and White Refocus	
Flowering Response (photoperiodic controlled crop, no natural growing)	8 weeks
<u>Foliage</u>	
Color	upperside yellow-green 147A underside yellow-green 147B
Size	length 9 cm, width 6 cm
Quantity (per single stem)	30–35
Shape	egg-shaped
Texture	fleshy
Ribs and Veins	both ribs and veins well developed
Edge	crenated
Shape of Base of Sinus	round

-continued

Botanical Description of Refocus, Pink Refocus, Red Refocus and White Refocus	
Between Lateral Lobes	
Margin of Sinus Between Lateral Lobes	converging
Shape of Base	rounded
Apex	mucronate
Year of Discovery	1995

I claim:

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

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FIG. 1

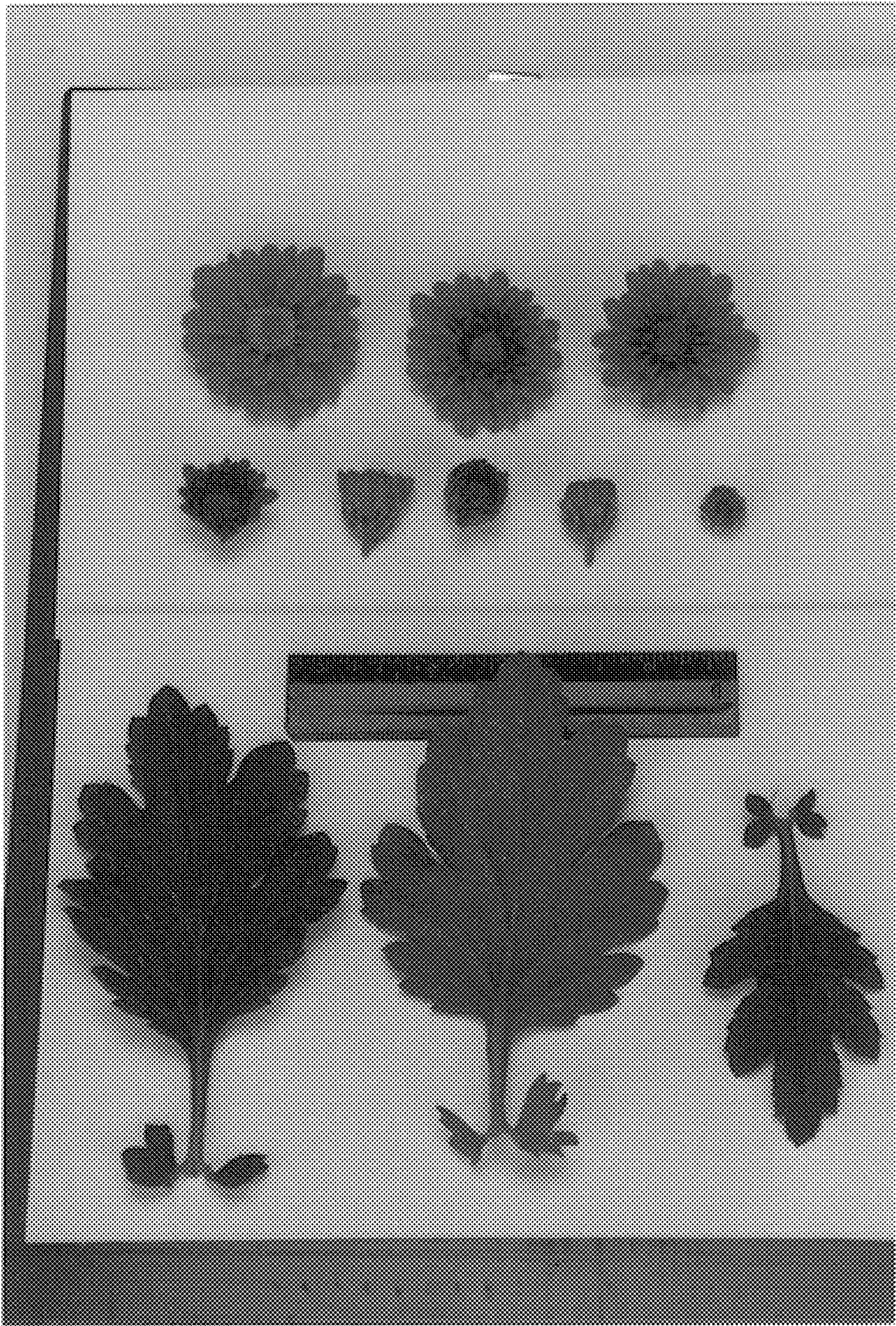


FIG. 2