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(12) United States Plant Patent
Boeder**(10) Patent No.: US PP15,416 P2**
(45) Date of Patent: Dec. 14, 2004**(54) CHRYSANTHEMUM PLANT NAMED 'BERYL'****(22) Filed: Jan. 14, 2004****(50) Latin Name: *Chrysanthemum morifolium***
Varietal Denomination: **Beryl****(51) Int. Cl.⁷ A01H 5/00****(52) U.S. Cl. Plt./289****(58) Field of Search Plt./289****(75) Inventor: Mark Roland Boeder, The Hague**
(NL)*Primary Examiner*—Anne Marie Grunberg*Assistant Examiner*—Annette H Para**(73) Assignee: Chrysanthemum Breeders**
Association, N.V. (NL)**(74) Attorney, Agent, or Firm—Parkhurst & Wendel, L.L.P.****(57) ABSTRACT****(*) Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.A *Chrysanthemum* plant named 'Beryl' characterized by its medium sized blooms with soft orange ray florets and prolific branching; natural season flower date August 25–30; blooming for a period of 5 weeks.**(21) Appl. No.: 10/756,376****2 Drawing Sheets****1****BACKGROUND OF THE INVENTION**

'Beryl' 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 5 weeks. The new plant of the present invention comprises a new and distinct cultivar of *Chrysanthemum* plant 'Beryl' is a seedling resulting from the crossing of the female parent '99.4245' with a mixed population of *Chrysanthemum* plants serving as male parents 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 August 2001. 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 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 August 25–30 (week 35). The average height of the plants was 25 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 soft orange ray florets blooming for a period of 5 weeks.

2

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Beryl' is 'Castor' (U.S. Plant patent application Ser. No. 10/317,046). When 'Castor' and 'Beryl' are being compared the following differences are noticed: The differences of 'Castor' and 'Beryl' are (1) Flower size. The flower size of 'Castor' is larger than that of 'Beryl' (2) Color of ray-florets. The ray-florets of 'Castor' are yellow, while those of 'Beryl' are soft orange (3) Color of center of flowers. The flower center of 'Castor' is yellow, while that of 'Beryl' is orange.

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

| Botanical Description of cultivar 'Beryl' | |
|---|---|
| <u>Bud</u> | |
| Size | Small; cross-section 0.8 cm, height 0.6 cm |
| Outside Color | Yellow-green 154D |
| Involucral bracts | 2 rows, length 7 mm, width 3 mm |
| Involucral bracts among disc-florets | Not present |
| Involucral bracts color | Yellow-green 148C |
| <u>Bloom</u> | |
| Type | Decorative |
| Size | Medium |
| Fully Expanded | 4.5 cm |
| Peduncle length | 7 cm |
| Peduncle color | Green 139C |
| Number of blooms per branch | Approx. 10 blooms per branch |
| Performance on the plant | 5 weeks |
| Seeds | Produced in small quantities, ovate grey-brown 199A, 1½ mm in length. |
| Fragrance | Typical <i>chrysanthemum</i> , slightly |
| <u>Color</u> | |
| Center of the flower | Immature Greyed-orange 171C Mature Greyed-orange 164C |

TABLE 1-continued

| Botanical Description of cultivar 'Beryl' | |
|--|---|
| Color of upper surface of the ray-florets | Orange 26C |
| Color of the lower surface of the ray-florets | Yellow-orange 22C |
| Tonality from Distance | A garden mum with orange flowers |
| Color of upperside of ray-florets after aging of the plant | Orange 26D |
| <u>Ray florets</u> | |
| Texture | Upper and under side smooth |
| Number | 250 |
| Cross-section | Convex |
| Longitudinal axis of majority | Reflexing |
| Length of corolla tube | 0.8 cm |
| Ray-floret margin | Entire |
| Ray-floret length | 2.1 cm |
| Ray-floret width | 0.6 cm |
| Ratio length/width | Medium |
| Shape of tip | Rounded |
| Disc florets | Absent |
| Receptacle shape | Domed raised |
| <u>Reproductive Organs</u> | |
| Stamen | Absent |
| Pollen | Not produced |
| Styles | Thin |
| Style color | Yellow 13A |
| Style Length | 3 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 | Slow |
| Height | 25 cm |
| Width | 28 cm |
| Stem Color | Greyed-green 194B with streaks of Greyed-red 182B |
| Stem Strength | Weak |
| Stem Brittleness | Brittle |
| Stem Anthocyanin Coloration | Present |
| Internode length | 2.5 cm |
| Length of lateral branch | From top to bottom 15 cm |
| Lateral branch color | Greyed-green 194A |

TABLE 1-continued

| Botanical Description of cultivar 'Beryl' | |
|--|--|
| Lateral branch, attachment | Moderately strong |
| Branching (average number of lateral branches) | Good with 8 breaks after pinching |
| Natural season blooming date | August 25-30 |
| <u>Foliage</u> | |
| Leaf color | Upper side Yellow-green 147B Under side Yellow-green 148B |
| Color midvein | Upper side Yellow-green 147D Under side Green 138D |
| Size | Small; length 4.5 cm, width 3 cm |
| Quantity (number per lateral branch) | 25 |
| 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 Lateral Lobes | Diverging |
| Shape of Base | Obtuse |
| Apex | Mucronate |
| Petiole length | 1.2 cm |
| Petiole color | Yellow-green 147D |

TABLE 2

| <u>Differences with the comparison variety</u> | | |
|--|--------------------|------------|
| | 'Beryl' | 'Castor' |
| Flower size | 4.5 cm | 6.5 cm |
| Color ray-florets | Orange 26C | Yellow 13B |
| Color center mature flowers | Greyed-orange 164C | Yellow 13B |

I claim:

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

* * * * *

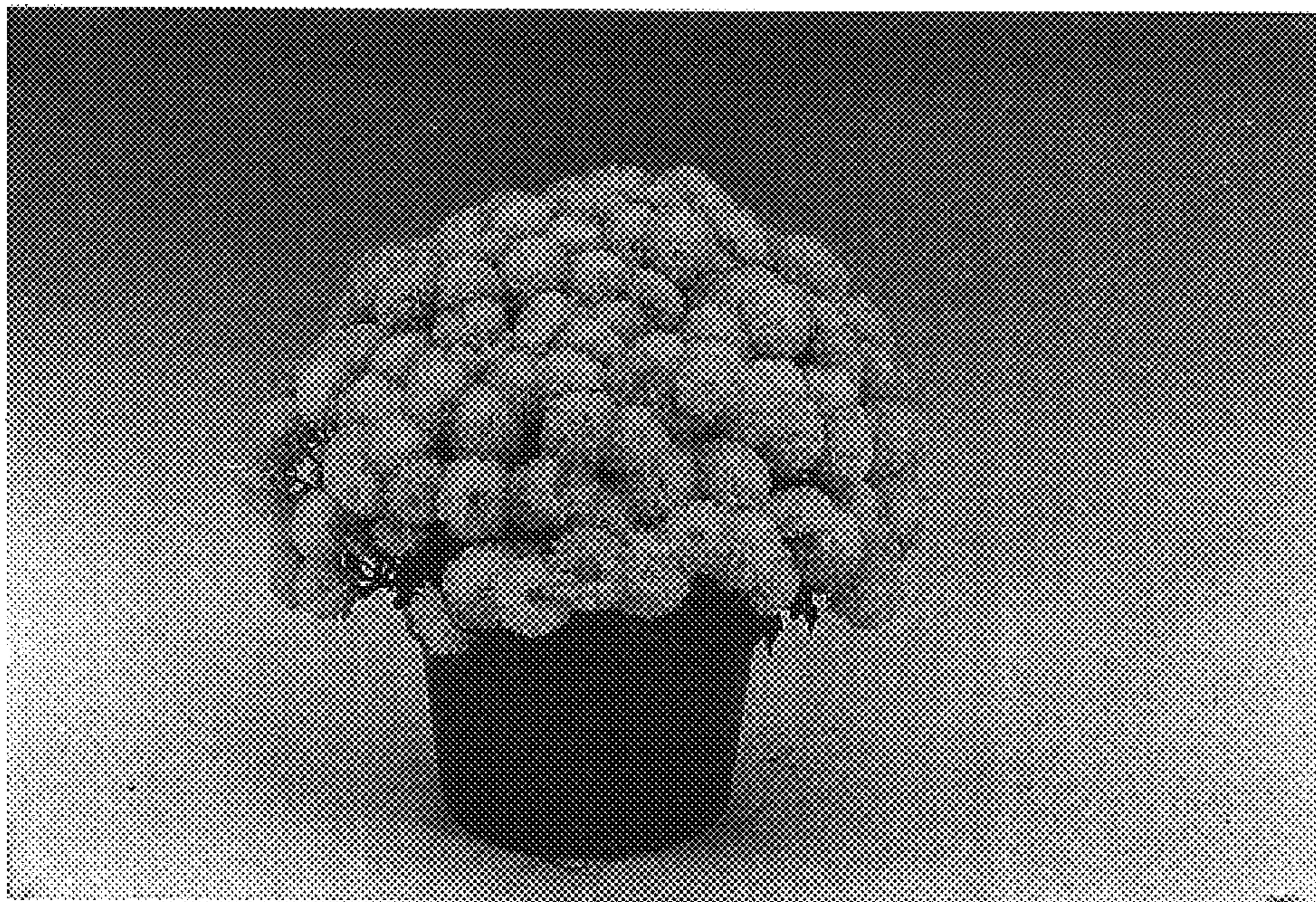


FIG. 1

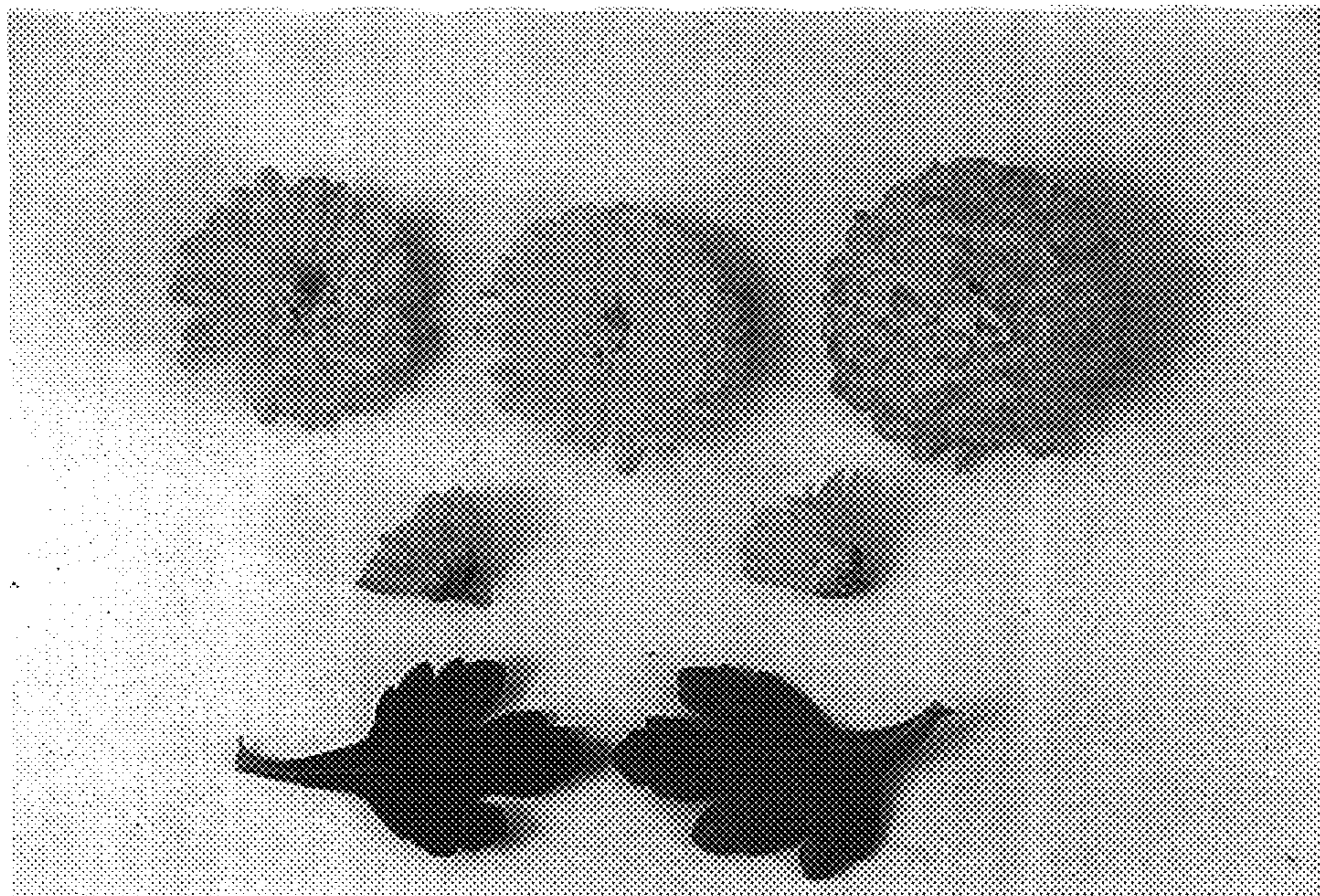


FIG. 2