US00PP15416P2

(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'**

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

(75) Inventor: **Mark Roland Boeder**, The Hague (NL)

(73) Assignee: **Chrysanthemum Breeders Association, N.V.** (NL)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/756,376**

(22) Filed: **Jan. 14, 2004**

(51) **Int. Cl.**[7] **A01H 5/00**
(52) **U.S. Cl.** **Plt./289**
(58) **Field of Search** Plt./289

Primary Examiner—Anne Marie Grunberg
Assistant Examiner—Annette H Para
(74) *Attorney, Agent, or Firm*—Parkhurst & Wendel, L.L.P.

(57) **ABSTRACT**

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.

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 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'

Bud	
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
Bloom	
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 *chrysanthemum,* slightly
Color	
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
Ray florets	
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
Reproductive Organs	
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
Plant	
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
Foliage	
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 Between Lateral Lobes	Rounded
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

Differences with the comparison variety

	'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.

* * * * *

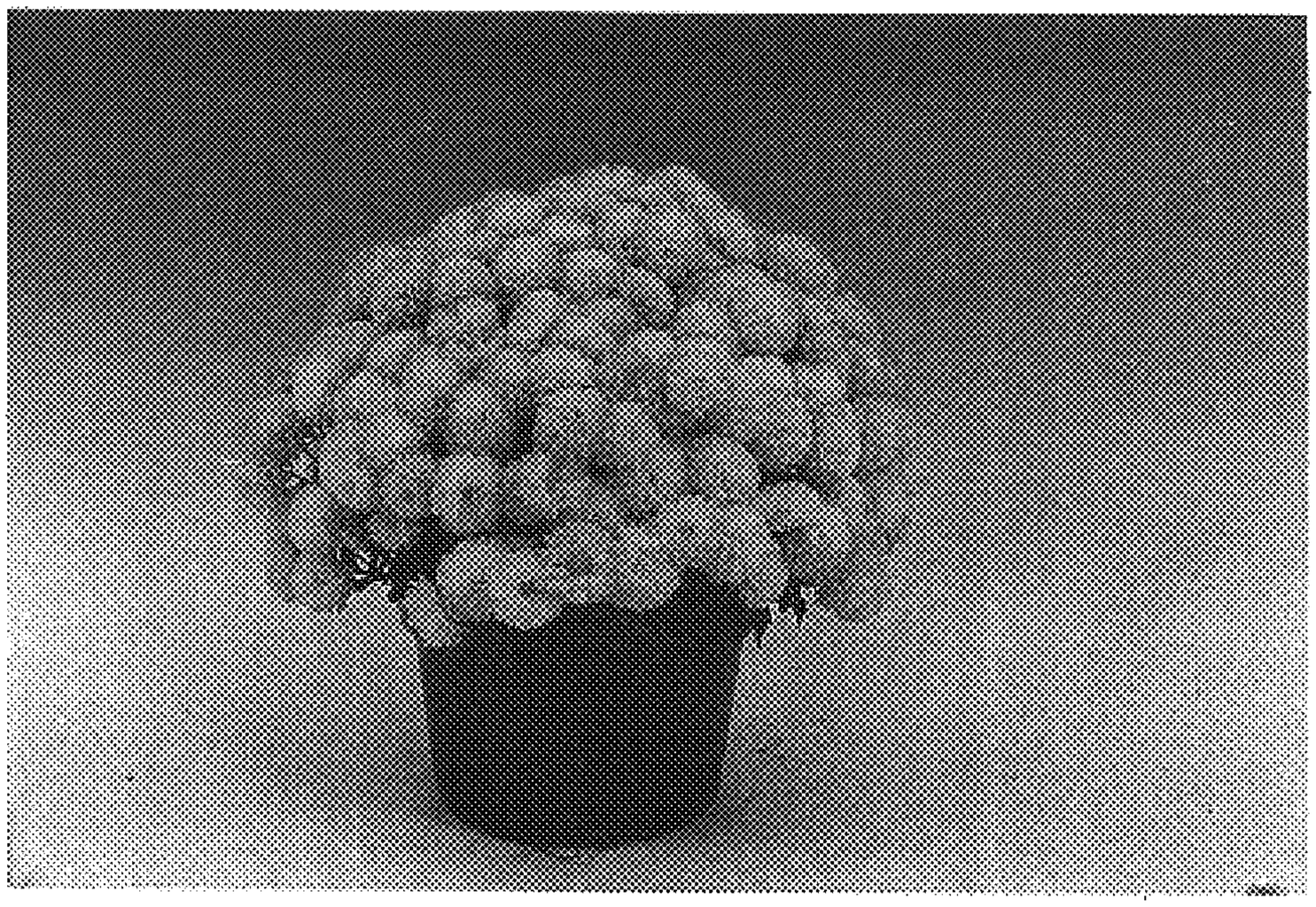

FIG. 1

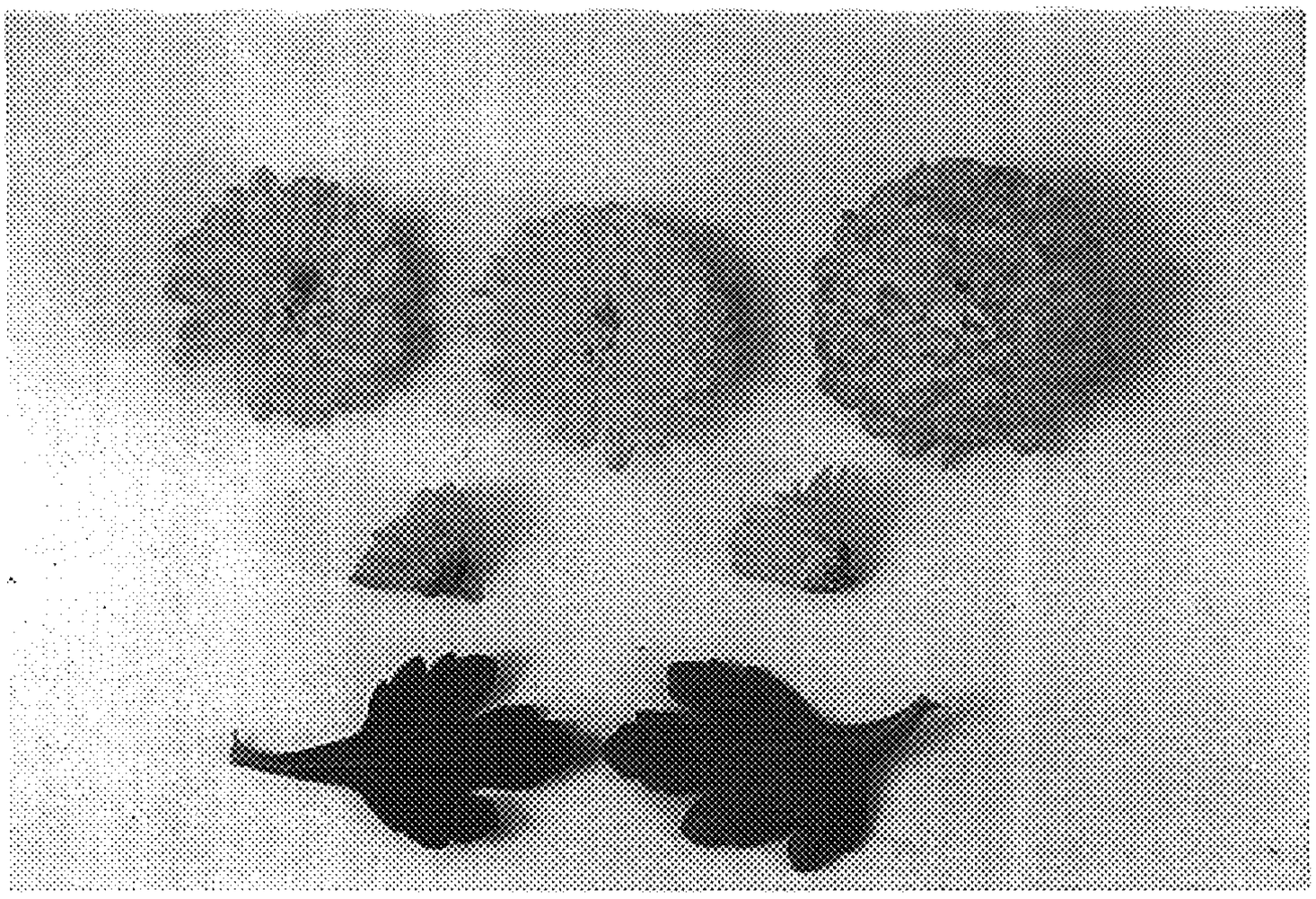

FIG. 2