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

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(54) **CHRYSANTHEMUM PLANT NAMED ‘CALISTO’**

(51) **Int. Cl.**
A01H 5/00 (2006.01)

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

(52) **U.S. Cl.** **Plt./287**

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(58) **Field of Classification Search** Plt./287
See application file for complete search history.

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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 70 days.

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(57) **ABSTRACT**
A *chrysanthemum* plant named ‘Calisto’ characterized by its medium sized blooms with pink ray florets and prolific branching; natural season flower date August 9–16 (week 33); blooming for a period of 5 weeks.

3 Drawing Sheets

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BACKGROUND OF THE INVENTION

‘Calisto’ 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 9–16 (week 33); blooming for a period of 5 weeks. The new plant of the present invention comprises a new and distinct cultivar of *Chrysanthemum* plant ‘Calisto’ is a seedling resulting from a crossing program, which was set up by a previous breeder, and which records are unknown to the inventor. The new and distinct cultivar was discovered and selected as a flowering plant by Mark Roland Boeder on a cultivated field in Rijsenhout, Holland in 2001. The first act of asexual production of ‘Calisto’ was accomplished when vegetative cuttings were taken from the initial selection in 2001 in a controlled environment in Rijsenhout, Holland, and propagated at this location. 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 cultivar.

FIG. 3 shows the foliage of the new cultivar.

DESCRIPTION OF THE INVENTION

This new variety of *chrysanthemum* is of the botanical classification *Chrysanthemum morifolium* L. The observations and measurements were gathered from plants grown out door in Rijsenhout, Holland under natural day length and temperature and planted week 24 in 2004. The natural blooming date of this crop was August 9–6 (week 33). The average height of the plants was 30 cm. No growth retardants were used. No tests were done on disease or insect resistance or susceptibility. No tests were done on cold or

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drought tolerance. This new variety produces medium sized blooms with pink ray florets and a purple center blooming for a period of 5 weeks.

From the cultivars known to inventor the most similar existing cultivar in comparison to ‘Calisto’ is ‘Ida’ (U.S. Plant Pat. No. 15,700). When ‘Ida’ and ‘Calisto’ are being compared the following similarities and differences are noticed. Both varieties have decorative blooms with pink flowers and a purple center. The differences of ‘Ida’ and ‘Calisto’ are (1) Size of the blooms. The blooms of ‘Ida’ are smaller than those of ‘Calisto’. (2) Color center of the blooms. The center of ‘Ida’ is more dark purple than that of ‘Calisto’.

The following is a description of the plant and characteristics that distinguish ‘Calisto’ 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 <i>chrysanthemum</i> plant ‘CALISTO’		
<u>Bud</u>		
Size	Small; cross-section 0.5 cm, height 0.7 cm	
Outside Color	Green 138C	
Involucral bracts	2 rows, length 7 mm, width 3 mm	
Involucral bracts among disc-florets	Not present	
Involucral bracts color	Green 138B	
<u>Bloom</u>		
Type	Decorative	
Height	2 cm	
Size	Medium	
Fully Expanded	5 cm	
Peduncle length	6–7 cm	
Peduncle color	Green 139C	
Number of blooms per branch	Approx. 7 blooms per branch	

TABLE 1-continued

Botanical Description of <i>chrysanthemum</i> plant ‘CALISTO’	
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 Red-purple 70B Mature Yellow 13A
Color of upper surface of the ray-florets	Greyed-purple 186C to Purple 75C
Color of the lower surface of the ray-florets	Purple-violet 81D to Purple 75C
Tonality from Distance	A garden mum with pink flowers and a purple disc
Discoloration to color	Purple 75D
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	160–180
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	0.6–0.8 cm
Ray-floret margin	Entire
Ray-floret length	2 cm
Ray-floret width	0.5 cm
Ratio length/width	High
Shape of tip	Rounded
<u>Disc florets</u>	
Disc diameter	0.5 cm
Distribution of disc florets	Few, only visible in mature stage
Shape	Tubular
Color	Yellow 11D
Receptacle shape	Domed raised
<u>Reproductive Organs</u>	
Stamen	present in disc florets only
Stamen color	Yellow-green 144A
Pollen	Present
Pollen color	Yellow 7A
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	Grown as a spray type potmum, outdoor mounded and round
Growth habit	Spherical shape
Growth rate	High
Height	30 cm
Width	35 cm
Stem Color	Yellow-green 148B with streaks of Greyed-purple 183D

TABLE 1-continued

Botanical Description of <i>chrysanthemum</i> plant ‘CALISTO’	
Stem Strength	Weak
Stem Brittleness	Brittle
Stem Anthocyanin Coloration	Present
Internode length	2–3 cm
Length of lateral branch	From top to bottom 15–17 cm
Lateral branch color	Yellow-green 147B
Lateral branch, attachment	Medium
Branching (average number of lateral branches)	Good with 8–9 breaks after pinching
Natural season blooming date	August 9–16
<u>Foliage</u>	
Leaf color	Upper side Green 137B Lower side Yellow-green 148C
Color midvein	Upper side Yellow-green 148D Lower side Yellow-green 148B
Size	Small; length 3–5 cm, width 2–3 cm
Quantity (number per lateral branch)	25
Shape	Obovate-elliptic
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	Acute-obtuse
Apex	Mucronulate
Petiole length	0.5–1.5 cm
Petiole color	Yellow-green 148D

TABLE 2

<u>Differences with the comparison varieties</u>		
	‘Calisto’	‘Ida’
Bloom type	Decorative	Decorative
Size of bloom	5 cm	2.5 cm
Color upper side ray-florets	Greyed-purple 186C to Purple 75C	Purple 75D
Color center of immature bloom	Red-purple 70B	Red-purple 71A

I claim:

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

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FIG. 1

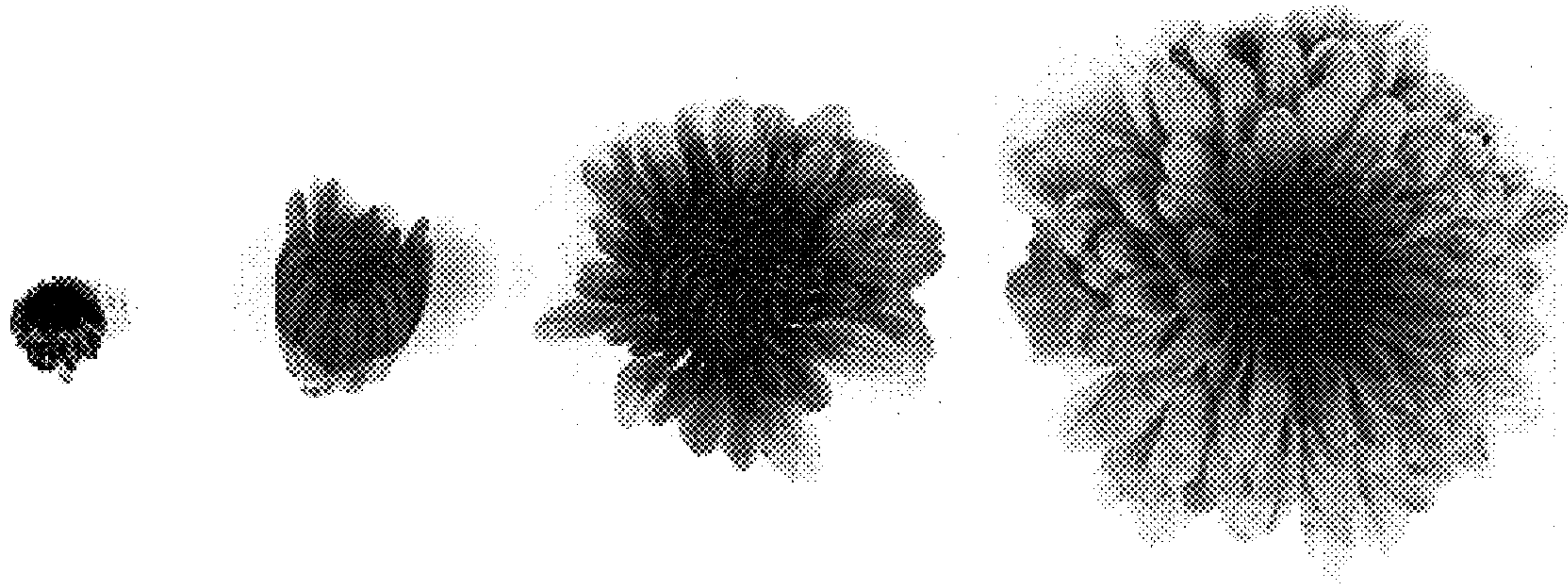


FIG. 2



FIG. 3