



US00PP24670P3

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

(10) **Patent No.:** **US PP24,670 P3**

(45) **Date of Patent:** **Jul. 22, 2014**

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

(50) Latin Name: *Chrysanthemum*×*morifolium* Ramat.
Varietal Denomination: **Zanmuday**

(71) Applicant: **Chrysanthemum Breeders Association**
Research B.V., Aalsmeer (NL)

(72) Inventor: **Wilhelmus Bernardus Blom**,
Leimuiden (NL)

(73) Assignee: **Chrysanthemum Breeders Association**
Research B.V., Valkenburg (NL)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 5 days.

(21) Appl. No.: **13/694,701**

(22) Filed: **Dec. 26, 2012**

(65) **Prior Publication Data**

US 2014/0182029 P1 Jun. 26, 2014

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

(52) **U.S. Cl.**
USPC **Plt./289**

(58) **Field of Classification Search**
USPC Plt./289
See application file for complete search history.

Primary Examiner — Anne Grunberg

(74) *Attorney, Agent, or Firm* — Steptoe & Johnson LLP

(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmuday' characterized by
its medium sized blooms with yellow ray florets and prolific
branching; natural season flowering date October 8 (week
41); blooming for a period of 5 weeks.

3 Drawing Sheets

1

Botanical designation: *Chrysanthemum*×*morifolium*
Ramat.

Cultivar denomination: 'Zanmuday'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *chrysanthemum* plant, botanically known as *Chrysanthemum*
×*morifolium* Ramat., commercially known as a garden
mum, and hereinafter referred to by the cultivar denomination
'Zanmuday'. 'Zanmuday' is a product of a breeding and
selection program for outdoor pot mums (garden mums)
which had the objective of creating new cultivars with a
double type inflorescence, a natural season flowering date
around October 8 (week 41), blooming for a period of 5
weeks. 'Zanmuday' is a seedling resulting from a cross of the
female parent id 24636 with the male parent id 26443. Plants
of the new cultivar 'Zanmuday' differ from plants of the
female parent in inflorescence size; the inflorescences of the
seedling are larger than those of the female parent. Plants of
the new cultivar 'Zanmuday' differ from plants of the male
parent in natural-season flowering date; plants of the seedling
flower in an earlier period than those of the male parent.

The new and distinct cultivar was discovered and selected
as a flowering plant by Wilhelmus Bernardus Blom on a
cultivated field in Rijsenhout, The Netherlands in 2007. The
first act of asexual production of 'Zanmuday' was accom-
plished when vegetative cuttings from the initial selection in
2007 were propagated further in a controlled environment in
Rijsenhout, The Netherlands. The new cultivar has been
found to retain its distinctive characteristics through succes-
sive 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.

2

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

FIG. 2 shows the various stages of bloom of the new cul-
tivar.

FIG. 3 shows the various stages of foliage of the new
cultivar.

DESCRIPTION OF THE INVENTION

The observations and measurements were gathered from
plants grown out door in Rijsenhout, The Netherlands under
natural day length and temperature and planted in week 23 in
2005. The natural blooming date of this crop was October 8
(week 41). The average height of the plants was 35 cm. 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 yellow ray florets blooming for a period of
5 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmuday' are 'Zan-
mugoldru' (U.S. Plant Pat. No. 20,462) and 'Zanmugolmine'
(U.S. Plant Pat. No. 22,618). When 'Zanmuday', 'Zan-
mugoldru' and 'Zanmugolmine' are being compared the fol-
lowing differences are noticed: (1) Plant vigor. And (2) Natu-
ral season flowering date. (1) Plants of 'Zanmuday' are
slightly less vigorous than those of 'Zanmugoldru', and more
vigorous than those of 'Zanmugolmine'. (2) Plants of 'Zan-
muday' and of 'Zanmugoldru' flower later in the season than
those of 'Zanmugolmine'.

The following is a description of the plant and character-
istics that distinguish 'Zanmuday' as a new and distinct vari-
ety.

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 descrip-
tion is: The Royal Horticultural Society Colour Chart, edition
2001.

TABLE 1

Botanical Description of <i>Chrysanthemum x morifolium</i> Ramat. 'Zanmuday'	
<u>Bud</u>	
Size:	Small; cross-section 6 mm, height 4 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191A
<u>Phyllaries</u>	
Number:	24-25, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green 138A Lower side: Green 139C
Length and width:	3-4 mm; 1.5 mm
Texture:	Pubescent
<u>Inflorescences</u>	
Type:	Double
Height:	2-2.2 cm
Diameter:	5 cm
Peduncle length:	7-8 cm
Peduncle color:	Green 138B
Peduncle diameter:	1.5 mm
Peduncle texture:	Pubescent
Number per branch:	Approx. 6-8 inflorescences
Duration of flowering:	5 weeks
Seeds:	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.5 mm
Fragrance:	Faint <i>chrysanthemum</i> odor
<u>Color inflorescences</u>	
Center of inflorescence:	Immature stage: Yellow 13B; Mature stage: Yellow 13B
Color of upper side of ray florets:	Yellow 12B
Color of lower side of ray florets:	Yellow 11A
Tonality from distance:	A garden <i>mum</i> with bright yellow blooms
Color of ray florets after aging of the plant:	Yellow 12B
<u>Ray florets</u>	
Texture:	Upper and lower side smooth
Number:	220-240
Shape:	Elliptic
Apex:	Dentate
Base:	Attenuate
Cross-section:	Flat
Longitudinal axis:	Straight to reflexing
Length of corolla tube:	2-3 mm
Ray floret margin:	Entire
Ray floret length:	1.8-2.5 cm
Ray floret width:	2-6 mm
Ratio length/width:	Medium
Disc florets	Absent
<u>Receptacle</u>	
Color:	Yellow-green 145D
Shape:	Conical raised
Height:	5 mm
Diameter:	4 mm
<u>Reproductive Organs</u>	
Androecium:	Absent
Pollen:	Absent
Gynoecium:	Present on ray florets
Style color:	Yellow-green 154C
Style length:	4 mm

TABLE 1-continued

Botanical Description of <i>Chrysanthemum x morifolium</i> Ramat. 'Zanmuday'	
5	Stigma color: Yellow 7A Stigma width: 1 mm Ovary: Enclosed in calyx Plant
10	Form: Grown as a spray type pot mum, outdoor raised and mounded Growth habit: Spherical shape Growth rate: Medium to high Height: 35 cm Width: 50 cm Stem color: Greyed-brown 199A
15	Stem strength: Strong Stem brittleness: Not brittle Stem anthocyanin coloration: Not observed Internode length: 1.5-2.5 cm Length of lateral branch: From top to bottom 18-20 cm
20	Lateral branch color: Green 137 C Lateral branch, attachment: Strong Lateral branch diameter: 2 mm Branching (average number of lateral branches): Prolific with 8 breaks after pinching
25	Natural season blooming date: October 8 (week 41) Foliage
30	Leaf color: Upper side: Green 137A Lower side: Green 137B Color midvein: Upper side: Yellow-green 147D Lower side: Yellow-green 148D Size: Small; length 2-5.5 cm, width 1.6-2.6 cm Quantity (number per lateral branches): 24-26
35	Shape: Elliptic Texture upper side: Sparsely pubescent Texture under side: Pubescent Venation arrangement: Palmate
40	Shape of margin: Serrated Shape of base of sinus between lateral lobes: Rounded Margin of sinus between lateral lobes: Diverging Shape of base: Attenuate to truncate
45	Apex: Mucronulate Petiole length: 0.2-0.5 cm Petiole diameter: 1 mm Petiole color: Yellow-green 147D

TABLE 2

Differences with the comparison varieties, when grown under identical conditions				
	'Zanmuday'	'Zanmugolmine'	'Zanmugoldru'	
55	Plant width	50 cm	25 cm	50-55 cm
	Natural season flowering date	week 41	week 34	week 41

60 I claim:
1. A new and distinct *chrysanthemum* plant named 'Zanmuday' as described and illustrated.

* * * * *

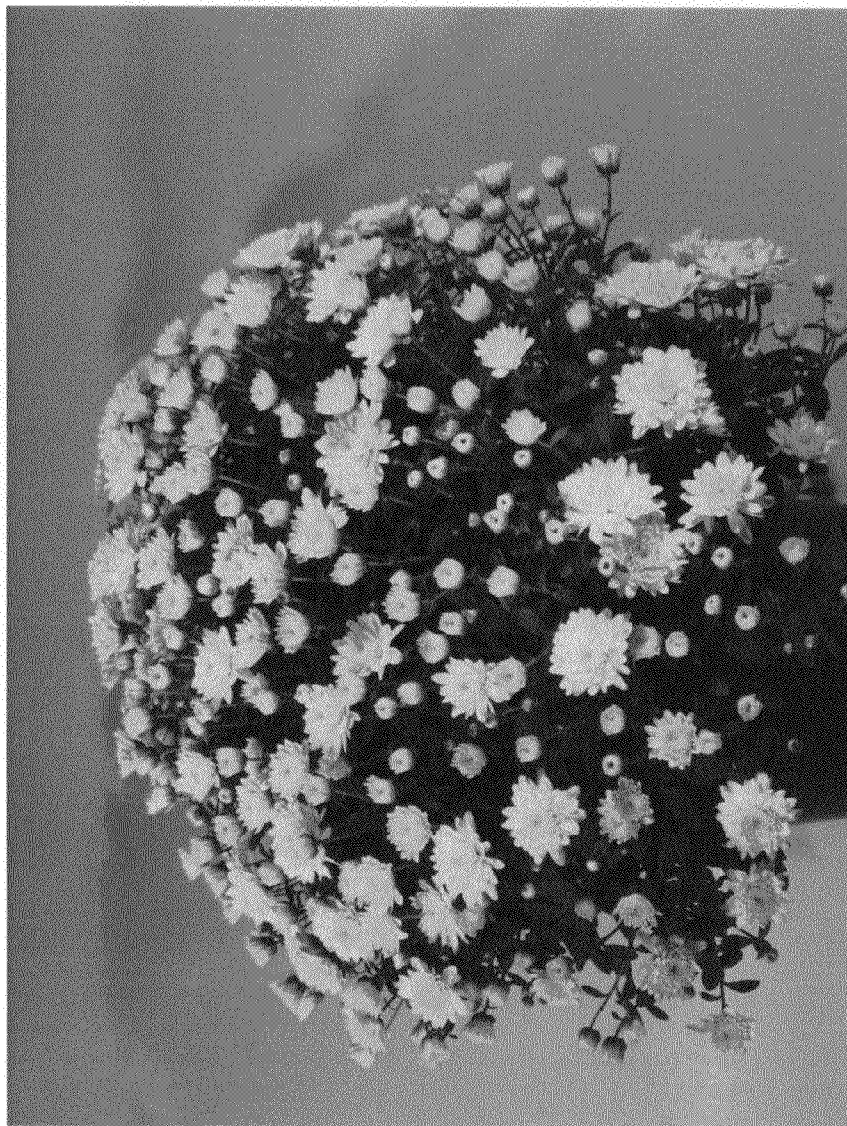


FIG. 1

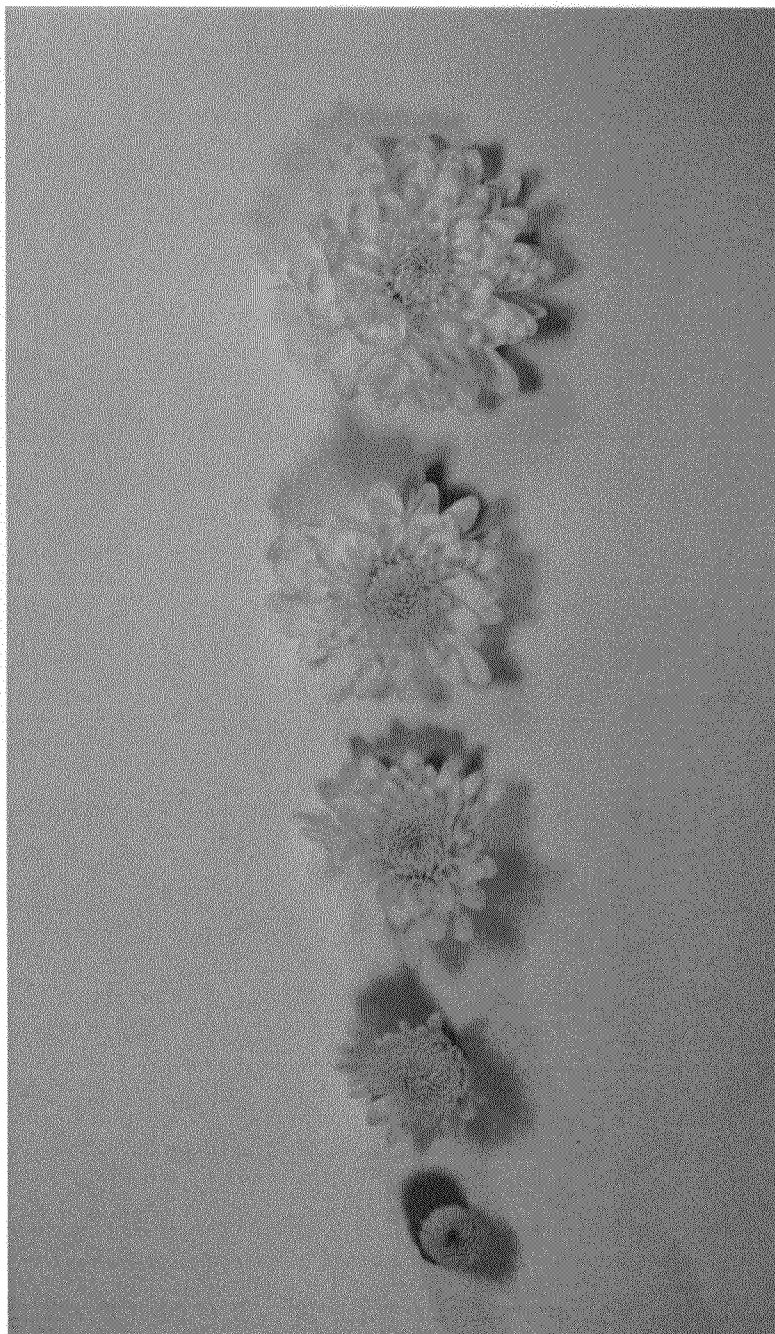


FIG. 2

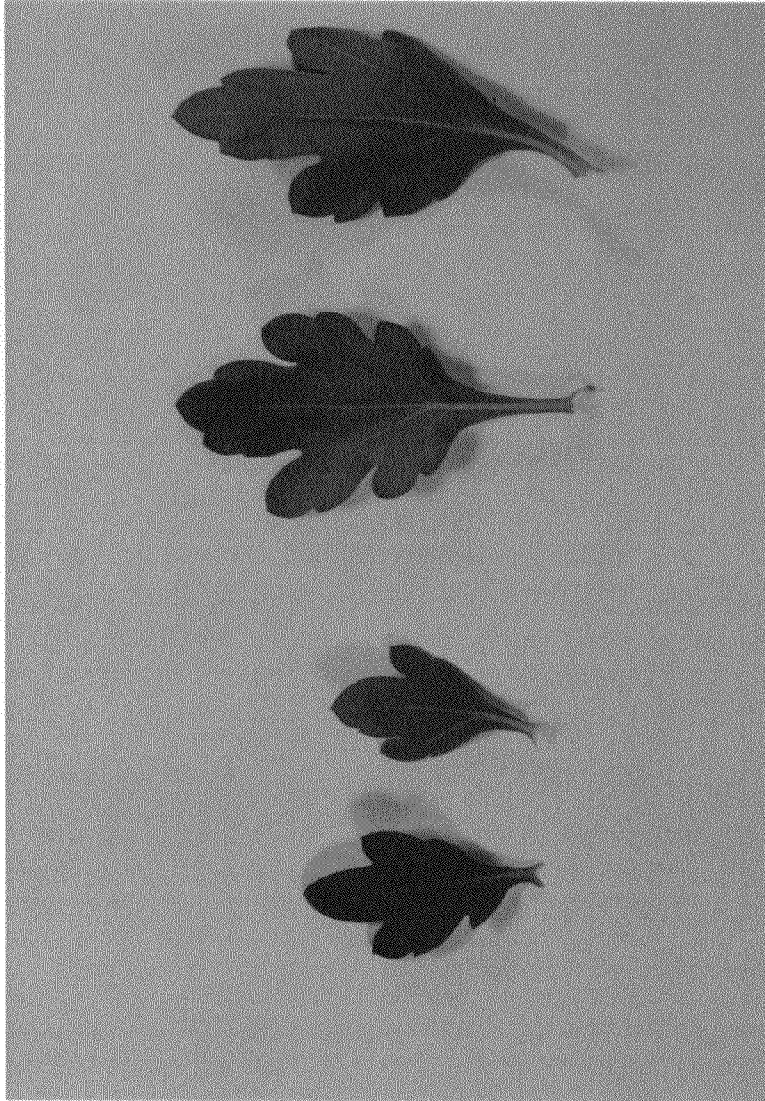


FIG. 3