



US00PP23636P3

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

(10) **Patent No.:** **US PP23,636 P3**

(45) **Date of Patent:** **May 28, 2013**

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

(65) **Prior Publication Data**

US 2013/0081162 P1 Mar. 28, 2013

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

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

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

(52) **U.S. Cl.**
USPC **Plt./295**

(73) Assignee: **Chrysanthemum Breeders Association**
Research B.V., Valkenburgh Z-H (NL)

(58) **Field of Classification Search** **Plt./295**
See application file for complete search history.

Primary Examiner — Annette Para

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 89 days.

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

(21) Appl. No.: **13/200,326**

(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmuember' characterized
by its medium sized blooms with bronze ray florets and pro-
lific branching; natural season flower date week 41; blooming
for a period of 4 weeks.

(22) Filed: **Sep. 23, 2011**

3 Drawing Sheets

1

2

Botanical designation: *Chrysanthemum*×*morifolium*
Ramat.
Cultivar denomination: 'Zanmuember'.

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

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

BACKGROUND OF THE INVENTION

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

The present invention relates to a new and distinct cultivar
of *chrysanthemum* plant, botanically known as *Chrysanthe-*
mum×*morifolium* Ramat., commercially known as a garden
mum, and hereinafter referred to by the cultivar denomination
'Zanmuember'. 'Zanmuember' 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 flower date
around week 41, blooming for a period of 5 weeks. 'Zan-
muember' is a seedling resulting from a cross of the female
parent id 9376 with the male parent id 177772. Both parents
are unpatented plants. Plants of the new cultivar 'Zanmuem-
ber' differ from plants of the female parent in the following
characteristics. (1) Plant vigor and (2) Natural season flower
date. (1) Plants of the seedling are more vigorous than plants
of the female parent. (2). Plants of the seedling flower later in
season than plants of the female parent. Plants of the new
cultivar 'Zanmuember' differ from plants of the male parent
in the following characteristics. (1) Inflorescence size and (2)
Natural season flower date. (1). The size of the inflorescences
of the seedling is larger than those of the male parent. (2).
Plants of the seedling flower later in season than plants 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 2005. The
first act of asexual production of 'Zanmuember' was accom-
plished when vegetative cuttings from the initial selection in
2005 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.

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
2010. The natural blooming date of this crop was October 11
(week 41). The average height of the plants was 39 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 cultivar produces medium
sized blooms with bronze ray florets blooming for a period of
4 weeks.

From the cultivars known to inventor the most similar
existing cultivars in comparison to 'Zanmuember' are 'Zan-
musunset' (U.S. Plant Pat. No. 20,475) and 'Zanmufay' (U.S.
Pat. No. 22,336). When 'Zanmuember' is being compared
with 'Zanmusunset' and 'Zanmufay' the following differ-
ences are noticed (1) Color upper surface of ray florets. And
(2) Presence of a disc in inflorescences. (1) The orange color
of the upper surface of the ray florets is more yellow in tone in
'Zanmufay' than in 'Zanmuember' and 'Zanmusunset'. (2) A
small disc is present in the inflorescences of 'Zanmuember',
while it is absent in 'Zanmusunset' and 'Zanmufay'.

The following is a description of the plant and character-
istics that distinguish 'Zanmuember' as a new and distinct
cultivar.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct cultivar of
chrysanthemum is shown in the accompanying drawings, the
color being as nearly true as possible with color photographs
of this type.

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

Detailed Botanical Description	
Bud	
Size	Small; cross-section 5 mm, height 4 mm
Shape	Round
Texture	Pubescent
Outside Color	Greyed-green 191A
Phyllaries	
Number	20, arranged in 3 rows
Shape	Elliptic
Apex	Acute
Base	Truncate
Margin	Entire
Color	Upper surface: Green 138A Lower surface: Green 138B
Length and width	4 mm; 2 mm
Texture	Pubescent
Inflorescences	
Type	Double
Height	1.2 cm
Diameter	5 cm
Peduncle length	4-5 cm
Peduncle color	Green 138B
Peduncle diameter	1 mm
Peduncle texture	Pubescent
Number per branch	Approx. 5 inflorescences
Duration of flowering	4 weeks
Seeds	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.5 mm
Fragrance	Faint chrysanthemum odor
Color	
Center of inflorescence	Immature stage: Greyed-red 178B Mature stage: Yellow 12C
Color of upper surface of the ray-florets	Greyed-orange 168B to 168C
Color of the lower surface of the ray-florets	Greyed-orange 167D
Tonality from Distance	A garden mum with bronze blooms and a dark center
Color of the ray-florets after aging of the plant	Greyed-orange 168D
Ray florets	
Texture	Upper and lower surface smooth
Number	210-230
Shape	Elliptic
Apex	Dentate
Base	Attenuate
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	3-4 mm
Ray-floret margin	Entire
Ray-floret length	1.8-2 cm
Ray-floret width	4-6 mm
Ratio length/width	High
Disc florets	
Disc diameter	1 cm
Distribution of disc florets	Scarce
Shape	Tubular
Color	Yellow-green 150D at base to Yellow 12C at apex
Length	4 mm
Diameter	3 mm
Receptacle	
Color	Yellow-green 145D
Shape	Conical raised
Height	4 mm
Diameter	3 mm

TABLE 1-continued

Detailed Botanical Description	
Reproductive Organs	
5	Androecium Present on only disc florets
	Stamen length 3 mm
	Stamen color Yellow-green 144A
	Anther color Yellow 3A
	Pollen Present
10	Pollen color Yellow 13A
	Gynoecium Present on both ray and disc florets
	Style color Yellow-green 154C
	Style Length 3 mm
	Stigma color Yellow 7A
	Stigma Width 1 mm
15	Ovary Enclosed in calyx
Plant	
	Form Grown as a spray type pot mum, outdoor raised and mounded
	Growth habit Spherical shape
	Growth rate High
20	Height 38-40 cm
	Width 60 cm
	Stem Color Greyed-brown 199A
	Stem Strength Strong
	Stem Brittleness Not brittle
	Stem Anthocyanin Coloration Not observed
25	Internode length 1.5-2 cm
	Length of lateral branch From top to bottom 22 cm
	Lateral branch color Green 137C
	Lateral branch, attachment Brittle
	Lateral branch diameter 22 mm
	Branching (average number of lateral branches) Prolific with 7 breaks after pinching
30	Natural season blooming date October 11 (week 41)
Foliage	
	Leaf color Upper side: Green 137A Lower side: Green N138C
35	Color midvein Upper side: Yellow-green 147D Lower side: Yellow-green 148D
	Size Small; length 2-5.5 cm, width 1-3 cm
	Quantity (number per lateral branch) 16-18
40	Shape Elliptic
	Texture upper side Sparsely pubescent
	Texture under side Pubescent
	Venation arrangement Palmate
	Shape of the margin Serrated
	Shape of Base of Sinus Between Rounded
45	Margin of Sinus Between Lateral Lobes Diverging
	Shape of Base Truncate
	Apex Mucronulate
	Petiole length 1-2 cm
	Petiole diameter 2 mm
50	Petiole color Yellow-green 147D

TABLE 2

Differences with the comparison cultivars			
	'Zanmuember'	'Zanmusunset'	'Zanmufay'
55	Color upper surface ray floret Greyed-Orange 168B to 168C	Greyed-Orange 168B to 168C	Greyed-Orange 163B to 163D
	Presence disc in inflorescences Present	Absent	Absent
60			

I claim:

1. A new and distinct *chrysanthemum* plant named 'Zanmuember' as described and illustrated.

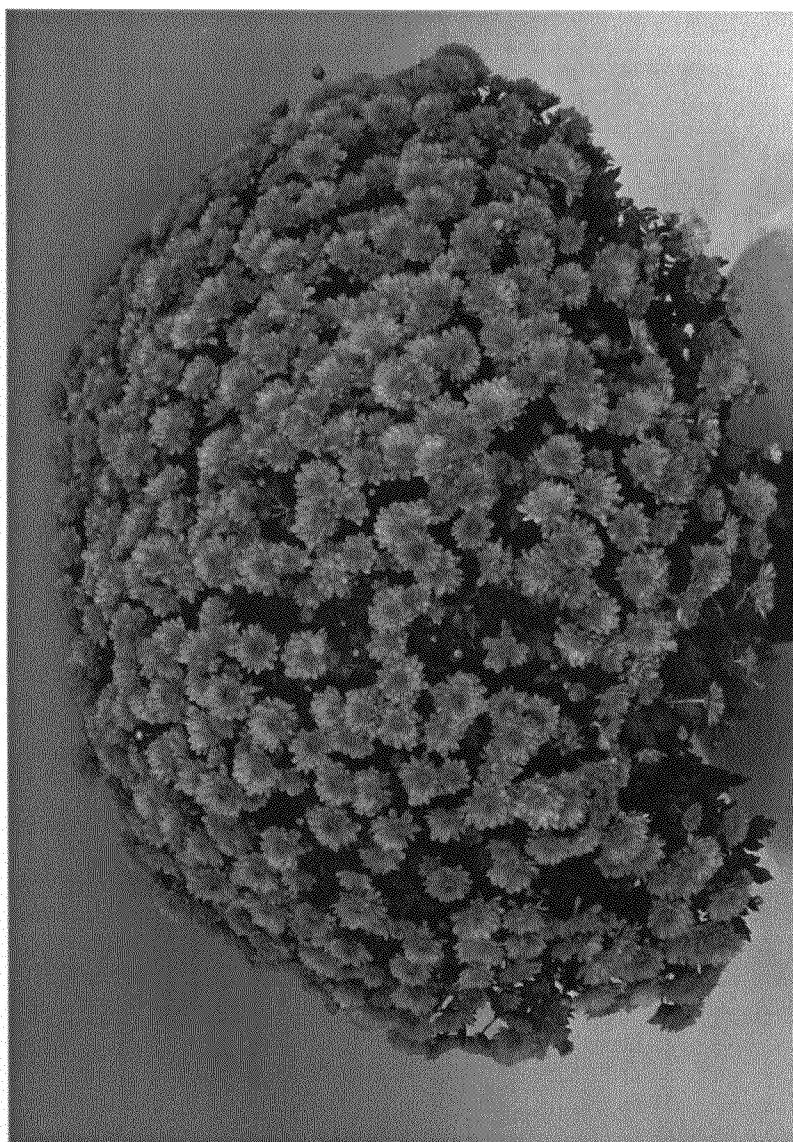


FIG. 1

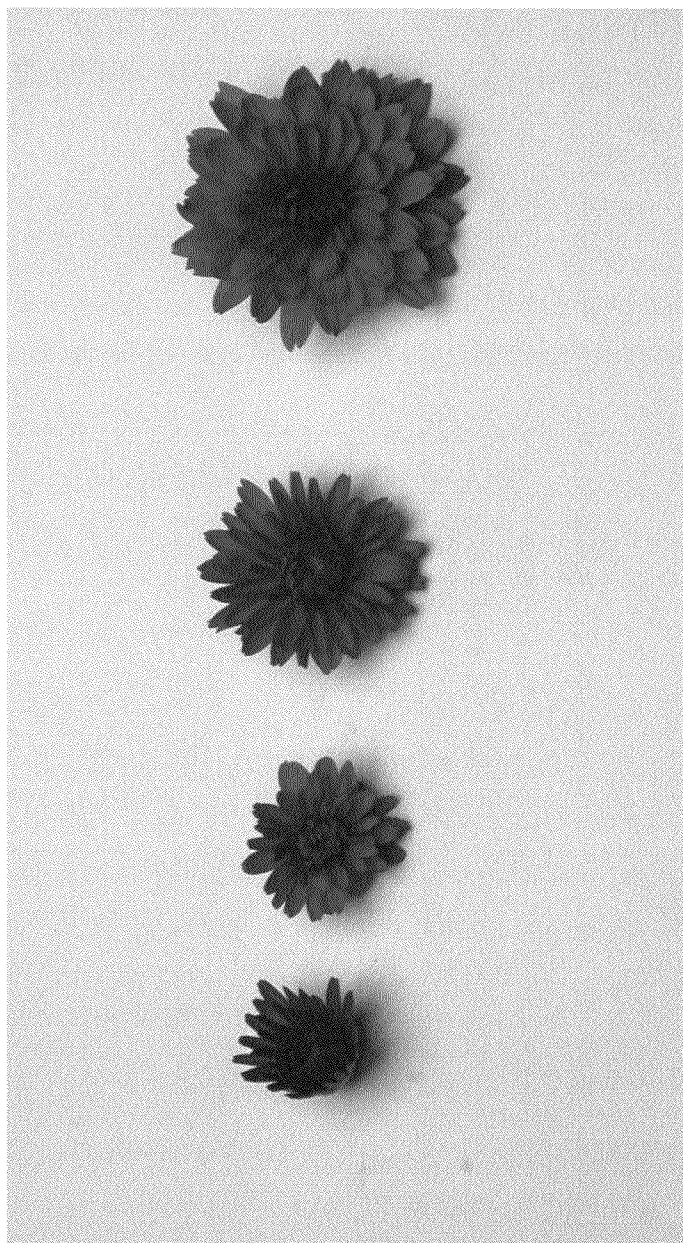


FIG. 2

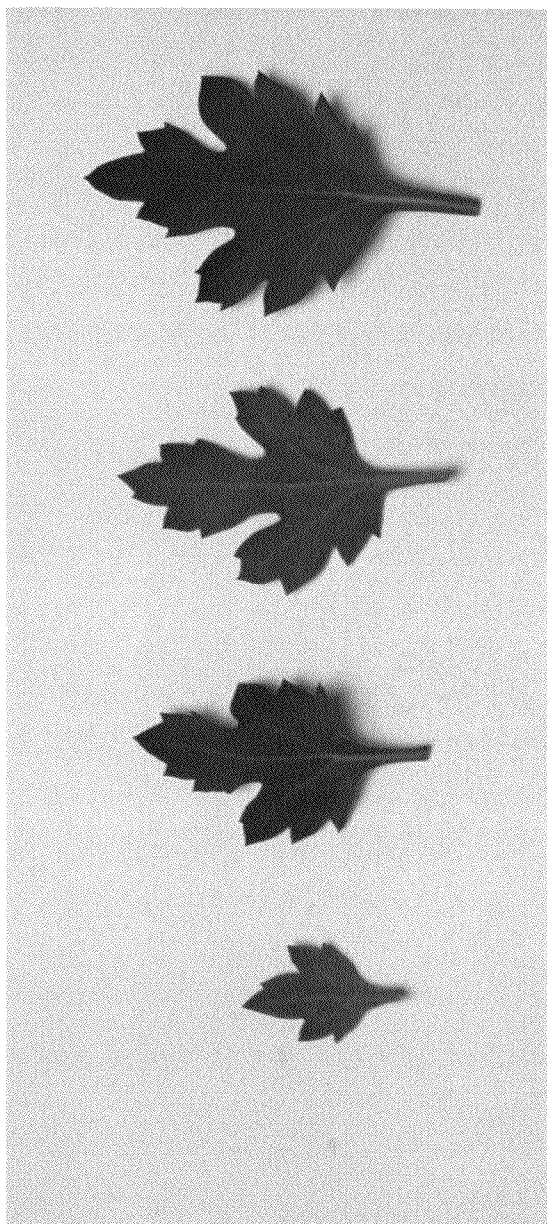


FIG. 3