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

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

(65) **Prior Publication Data**

US 2016/0192563 P1 Jun. 30, 2016

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

(51) **Int. Cl.**
A01H 5/02 (2006.01)

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

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

(72) Inventor: **Henricus Cornelius Maria Jacobs**,
Valkenburg (NL)

(58) **Field of Classification Search**
USPC Plt./287, 292
CPC A01H 5/0255; A01H 5/025
See application file for complete search history.

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

Primary Examiner — Kent L Bell

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

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

(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmugrape' characterized
by its medium sized blooms with purple ray florets and pro-
lific branching; natural season flowering date October 13;
blooming for a period of 5 weeks.

(21) Appl. No.: **14/544,364**

(22) Filed: **Dec. 30, 2014**

3 Drawing Sheets

1

2

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

Rijsenhout, The Netherlands. The new cultivar has been
found to retain its distinctive characteristics through succes-
sive propagations.

RELATED CULTIVARS

BRIEF DESCRIPTION OF THE DRAWINGS

This new plant cultivar 'Zanmugrape' is of the botanical
classification *Chrysanthemum*×*morifolium* Ramat.

The present invention of a new and distinct variety of
chrysanthemum (of about 19 weeks) is shown in the accom-
panying drawings, the color being as nearly true as possible
with color photographs of this type.

BACKGROUND OF THE INVENTION

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

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
'Zanmugrape'. 'Zanmugrape' 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 1, blooming for a period of 5 weeks. 'Zan-
mugrape' is a seedling resulting from a cross of the female
parent 22173 with the male parent 17006. Plants of the new
cultivar 'Zanmugrape' differ from plants of the parents in the
following characteristics. (1) Ray-floret color. And (2) Natu-
ral season flowering date. (1) Plants of the seedling have
purple colored ray-florets, while plants of the female parent
have pink colored ray-florets, and plants of the male parent
have salmon colored ray-florets. (2) Plants of the seedling
flower two weeks earlier in the season than those of the female
parent, and one week earlier than those of the male parent.
The new and distinct cultivar was discovered and selected as
a flowering plant by Henricus Cornelius Maria Jacobs on a
cultivated field in Rijsenhout, The Netherlands in 2010. The
first act of asexual production of 'Zanmugrape' was accom-
plished when vegetative cuttings from the initial selection in
2010 were propagated further in a controlled environment in

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 25 in
2014, receiving drip irrigation. The natural blooming date of
this crop was October 13. The average height of the plants was
29 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 purple ray florets blooming for a
period of 5 weeks. From the cultivars known to inventor the
most similar existing cultivar in comparison to 'Zanmugrape'
is 'Venus' (U.S. Plant Pat. No. 14,378). When 'Venus' and
'Zanmugrape' are being compared the following difference is
noticed: The difference of 'Venus' and 'Zanmugrape' is their
natural season blooming date, plants of 'Venus' flower earlier
than those of 'Zanmugrape'.

The following is a description of the plant and character-
istics that distinguish 'Zanmugrape' 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 2001.

TABLE 1

Botanical Description of <i>Chrysanthemum x morifolium</i> Ramat. 'Zanmugrape'	
Bud	
Size:	Small; cross-section 3 mm, height 3 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191A
Phyllaries	
Number:	21, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Yellow-green 144A Lower side: Greyed-green 191C
Length and width:	1 mm; 3 mm
Texture:	Pubescent
Inflorescences	
Type:	Double
Height:	0.5 cm
Diameter:	4.5-5 cm
Peduncle length:	4.5-6.5 cm
Peduncle color:	Greyed-green 191D
Peduncle diameter:	1.5 mm
Peduncle texture:	Pubescent
Number per branch:	About 5 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 chrysanthemum odor
Color inflorescences	
Center of inflorescence:	Immature stage: Red-purple 71A; Mature stage: Red-purple 71A
Color of upper side of ray florets:	Red-purple 61A
Color of lower side of ray florets:	Greyed-purple 186C
Tonality from distance:	A garden mum with purple blooms
Color of ray florets after aging of the plant:	Greyed-purple 186B
Ray florets	
Texture:	Upper and lower side smooth
Number:	90-100
Shape:	Elliptic
Apex:	Dentate
Base:	Attenuate
Cross-section:	Flat
Longitudinal axis:	Straight
Length of corolla tube:	3 mm
Ray floret margin:	Entire
Ray floret length:	1.5-2.5 cm
Ray floret width:	2-4 mm
Ratio length/width:	High
Disc florets	Absent
Receptacle	
Color:	Yellow-green 145D
Shape:	Domed raised

TABLE 1-continued

Botanical Description of <i>Chrysanthemum x morifolium</i> Ramat. 'Zanmugrape'	
5	Height: 3.5 mm Diameter: 3 mm Reproductive Organs
	Androecium: Absent Gynoecium: Present on ray florets
10	Style color: Yellow-green 154C Style length: 4 mm Stigma color: Yellow 7A Stigma width: 1 mm Ovary: Enclosed in calyx Plant
15	Form: Grown as a spray type pot mum, outdoor raised and mounded Spherical shape Growth habit: Spherical shape Growth rate: Vigorous Height: 28-30 cm Width: 60 cm
20	Stem color: Greyed-brown 199A Stem strength: Not strong Stem brittleness: Brittle Stem anthocyanin coloration: Present Internode length: 0.75-2 cm Length of lateral branch: From top to bottom 17-19 cm
25	Lateral branch color: Greyed-Green 191C with streaks in Greyed-purple 186D Lateral branch, attachment: Weak Lateral branch diameter: 2 mm Branching (average number of lateral branches): Prolific with 7 breaks after pinching
30	Natural season blooming date: October 13 (week 42) Foliage
	Leaf color: Upper side: Green 136B Lower side: Green 139B Color midvein: Upper side: Yellow-green 147D Lower side: Yellow-green 148D
35	Size: Small; length 2 -5.5 cm, width 1.6-3 cm about 16 Quantity (number per lateral branches): Shape: Elliptic Texture upper side: Sparsely pubescent Texture under side: Pubescent Venation arrangement: Pinnate Shape of margin: Serrated Shape of base of sinus between lateral lobes: Rounded Margin of sinus between lateral lobes: Diverging
45	lateral lobes: Truncate to asymmetric Shape of base: Mucronulate Apex: Mucronulate Petiole length: 0.8-1 cm Petiole diameter: 1.5 mm Petiole color: Yellow-green 147D
50	

TABLE 2

Differences with the comparison variety, when grown under identical conditions		
	'Zanmugrape'	'Venus'
55	Natural season blooming date	week 42 week 39
60	I claim: 1. A new and distinct <i>chrysanthemum</i> plant named 'Zanmugrape' as described and illustrated.	

* * * * *



FIG. 1

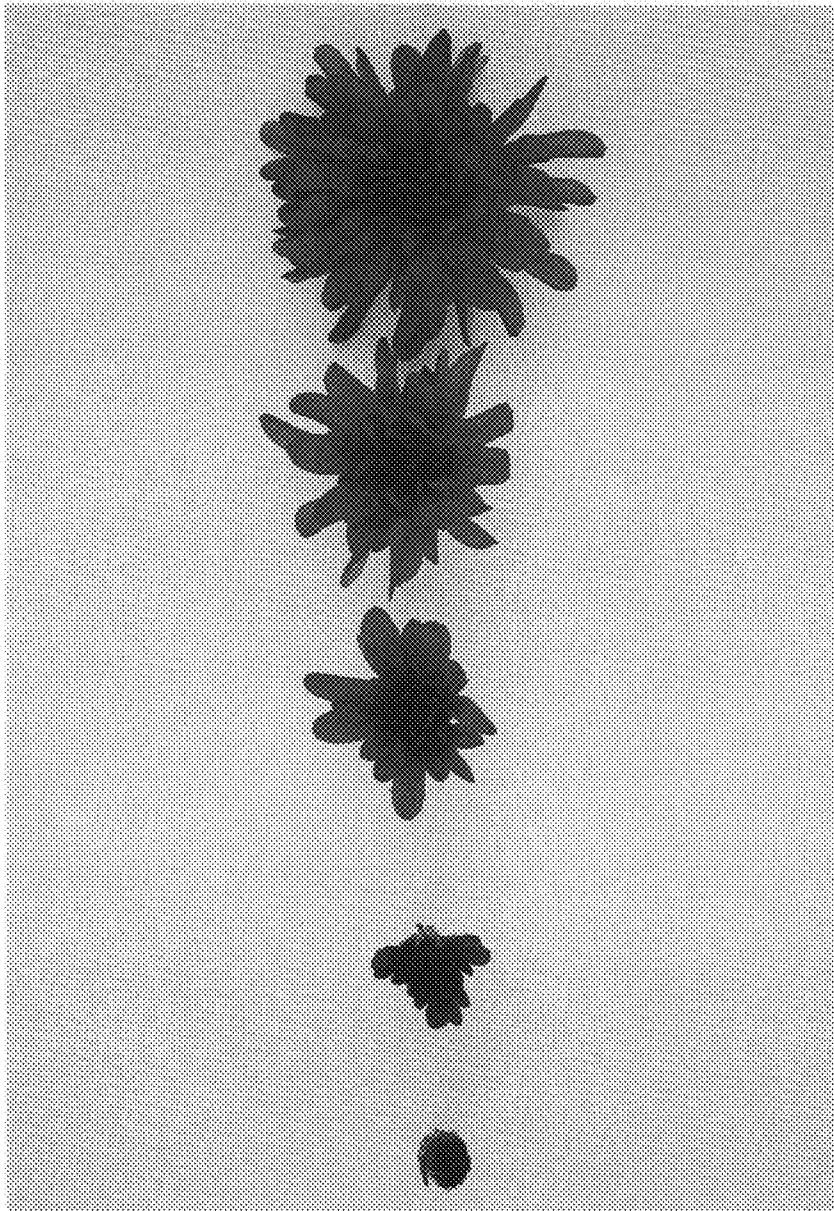


FIG. 2

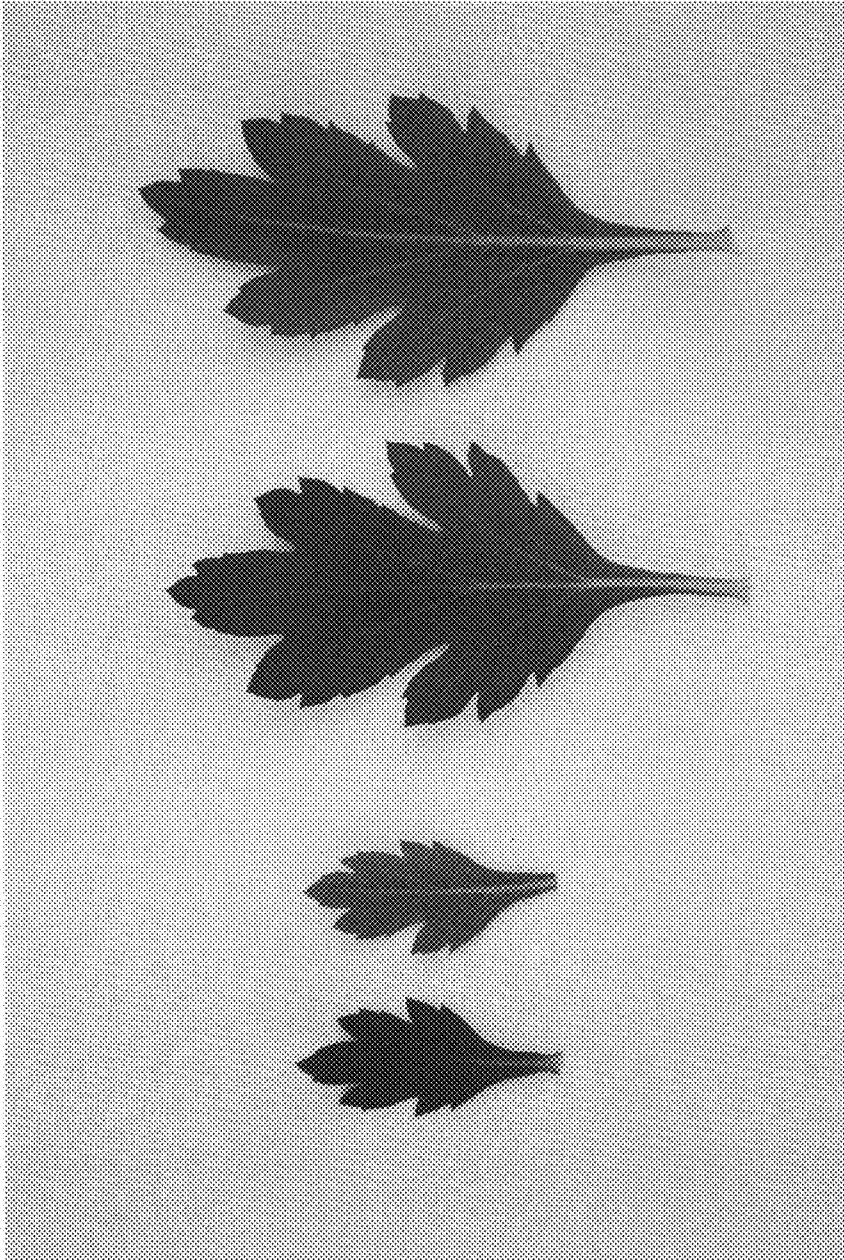


FIG. 3