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

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

(22) Filed: **Dec. 16, 2016**

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

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

(52) **U.S. Cl.**
USPC **Plt./297**

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(58) **Field of Classification Search**
USPC **Plt./297**
See application file for complete search history.

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(57) **ABSTRACT**

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

A *chrysanthemum* plant named 'Zanmupop' characterized
by its medium sized blooms with pink ray florets and prolific
branching; natural season flowering date October 10; bloom-
ing for a period of 5 weeks.

(21) Appl. No.: **15/530,242**

3 Drawing Sheets

1

2

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

Cultivar denomination: 'Zanmupop'.

new cultivar has been found to retain its distinctive charac-
teristics through successive propagations.

BACKGROUND OF THE INVENTION

BRIEF DESCRIPTION OF THE DRAWINGS

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 denomina-
tion 'Zanmupop'. 'Zanmupop' 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 pink
double type inflorescence, a natural season flowering date
around October 10, blooming for a period of 5 weeks.
'Zanmupop' is a seedling resulting from a cross of the
female parent 28284 (unpatented) with the male parent
45483 (unpatented). Plants of the new cultivar 'Zanmupop'
differ from plants of the female parent in the following
characteristics. (1) Presence disc florets. And (2) Natural
season blooming date. (1) Disc florets are absent in the
female parent, and present in the new plant. (2) Plants of
the female parent flower one week later than those of the new
plant. Plants of the new cultivar 'Zanmupop' differ from
plants of the male parent in the following characteristics. (1)
Ray floret color. And (2) Plant size. (1) Ray florets are purple
in the male parent and pink in the new plant. (2) Plants of
the male parent flower two weeks earlier than those of the
new plant.

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.

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

FIG. 2 shows the various stages of bloom of the new
cultivar.

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

DESCRIPTION OF THE INVENTION

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 week 41
2010. The first act of asexual production of 'Zanmupop' was
accomplished when vegetative cuttings from the initial
selection were propagated further in a controlled environ-
ment in Rijsenhout, the Netherlands. In summer, about 6-8
days are needed to initiate roots in cuttings of the new
cultivar, after another 5 days rooted plants are formed. The

The observations and measurements were gathered from
plants in the period of 17 to 23 weeks of age grown outdoor
in Rijsenhout, the Netherlands, under natural day length and
temperature and planted in week 23 in 2016, receiving drip
irrigation. The natural blooming date of this crop was
October 10. The average height of the plants was 37 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 pink ray florets blooming for a
period of 5 weeks.

From the cultivars known to the inventor the most similar
existing cultivar in comparison to 'Zanmupop' is 'Zan-
mupizza' (U.S. Plant Pat. No. 26,511). When 'Zanmupizza'
and 'Zanmupop' are being compared the following differ-
ences are noticed (1) Ray-floret color. And (2) Presence disc
florets. (1) Ray-florets of 'Zanmupop' are more pink colored
than those of 'Zanmupizza'. (2) Disc florets are present in
'Zanmupop' and lacking in 'Zanmupizza'.

The following is a description of the plant and character-
istics that distinguish 'Zanmupop' 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, sixth edition (2015).

TABLE 1

Botanical Description of <i>Chrysanthemum × morifolium</i> Ramat. 'Zanmupop'	
Bud	
Size:	Small; cross-section 3 mm, height 6 mm
Shape:	Round
Texture:	Pubescent
Outside color:	Greyed-green 191B
Phyllaries	
Number:	25, arranged in 3 rows
Shape:	Elliptic
Apex:	Acute
Base:	Truncate
Margin:	Entire
Color:	Upper side: Green 143C Lower side: Greyed-green 191B
Length and width:	5 mm; 2 mm
Texture:	Pubescent
Inflorescences	
Type:	Double
Height:	1.3 cm
Diameter:	4 cm
Peduncle length:	5-6.5 cm
Peduncle color:	Green N138B
Peduncle diameter:	1.5 mm
Peduncle texture:	Pubescent
Number per branch:	About 6 inflorescences
Duration of flowering:	5 weeks
Seeds:	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.5 mm; texture: rough with ribs
Fragrance:	Faint chrysanthemum odor
Color inflorescences	
Center of inflorescence (disc florets):	Immature stage: Green-yellow 1D ; Mature stage: Green-yellow 1D
Color of upper side of ray florets:	Outer rows: Greyed-purple 186C to 186D; Inner Rows: Greyed-purple 186B
Color of lower side of ray florets:	Outer rows: Greyed-purple 186 C to 186D; Inner Rows: Greyed-purple 186B
Tonality from distance:	A garden mum with pink blooms and a purple center
Color of ray florets after aging of the plant:	Greyed-purple 186D
Ray florets	
Number of types:	2
Type:	Outer rows: Ligulate; Inner rows: Quilled
Texture:	Upper and lower side smooth
Number:	170-180
Shape:	Outer rows: Elliptic; Inner rows: Narrowly elliptic
Apex:	Outer rows: Dentate; Inner rows: Rounded
Base:	Attenuate
Cross-section:	Outer rows: Flat; Inner rows: Circular
Longitudinal axis:	Outer rows: Straight; Inner rows: Incurving
Length of corolla tube (outer rows):	3 mm
Diameter corolla tube (outer rows):	1 mm
Ray floret margin:	Entire
Ray floret length:	Outer rows: 2.5 cm; Inner rows: 1.2 cm
Ray-floret width:	Outer rows: 4 mm; Inner rows: 1.5 mm
Ratio length/width:	Medium (outer rows) to high (inner rows)

TABLE 1-continued

Botanical Description of <i>Chrysanthemum × morifolium</i> Ramat. 'Zanmupop'	
5 Disc florets	
Disc diameter:	2 mm
Distribution of disc florets:	Few, only visible in mature stage of inflorescences
Shape:	Tubular
Color:	Yellow-green 145C at base to Green Yellow 1D at apex
Length:	3 mm
Diameter:	1 mm
Receptacle	
15	
Color:	Yellow-green 145D
Shape:	Domed raised
Height:	5 mm
Diameter:	7 mm
Reproductive Organs	
20	
Androecium:	Present on only disc florets
Stamen length:	3 mm
Stamen color:	Yellow-green 144A
Anther color:	Yellow 2A
Pollen:	Low amount
Pollen color:	Yellow 12A
Gynoecium:	Present on both ray and disc florets
Style color:	Yellow-green 154C
Style length:	4 mm
Stigma color:	Yellow 7A
Stigma width:	1 mm
Ovary:	Enclosed in calyx
Ovary color:	Yellow-green 149D
Plant	
Type:	Bushy
Growth habit:	Spherical shape
Growth rate:	Vigorous
Height:	35-38 cm
Width:	60-62 cm
Stem color:	Greyed-brown 199A
Stem strength:	Weak
Stem brittleness:	Brittle
Stem anthocyanin coloration:	Absent
Internode length:	1-3 cm
Length of lateral branch:	From top to bottom 22 cm
Lateral branch color:	Green 138A
Lateral branch, attachment:	Weak
Lateral branch diameter:	2 mm
Lateral branch, texture:	Pubescent with ribs
Branching (average number of lateral branches):	Dense with 8-9 breaks after pinching
Natural season blooming date:	October 10 (week 41) in Rijsenhout, the Netherlands
Roots—habits:	Fine, freely branching
Roots—color:	White 155A
50 Foliage	
Glossiness:	Leaf upper side: very weak Leaf lower side: absent
Leaf color:	Upper side: Green 139A Lower side: Green N138A
Color midvein:	Upper side: Yellow-green 147D Lower side: Yellow-green 148D
Size:	Small; length 2.2-3 cm, width 1.5-2 cm
Quantity (number per lateral branches):	22-24
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
65	

TABLE 1-continued

Botanical Description of <i>Chrysanthemum × morifolium</i> Ramat. 'Zanmupop'	
Margin of sinus between lateral lobes:	Diverging
Shape of base:	Attenuate
Apex:	Mucronulate
Petiole strength:	Weak
Petiole attitude:	Moderately upwards
Petiole length:	0.2 cm
Petiole diameter:	2 mm
Petiole color:	Yellow-green 147D
Stipules:	Very small

5

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TABLE 2

Differences with the comparison variety, when grown under identical conditions		
	'Zanmupop'	'Zanmupizza'
Ray floret color	Greyed purple 186 B to 186D	Red-purple 72A
Disc florets	Present	Absent

I claim:

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

* * * * *

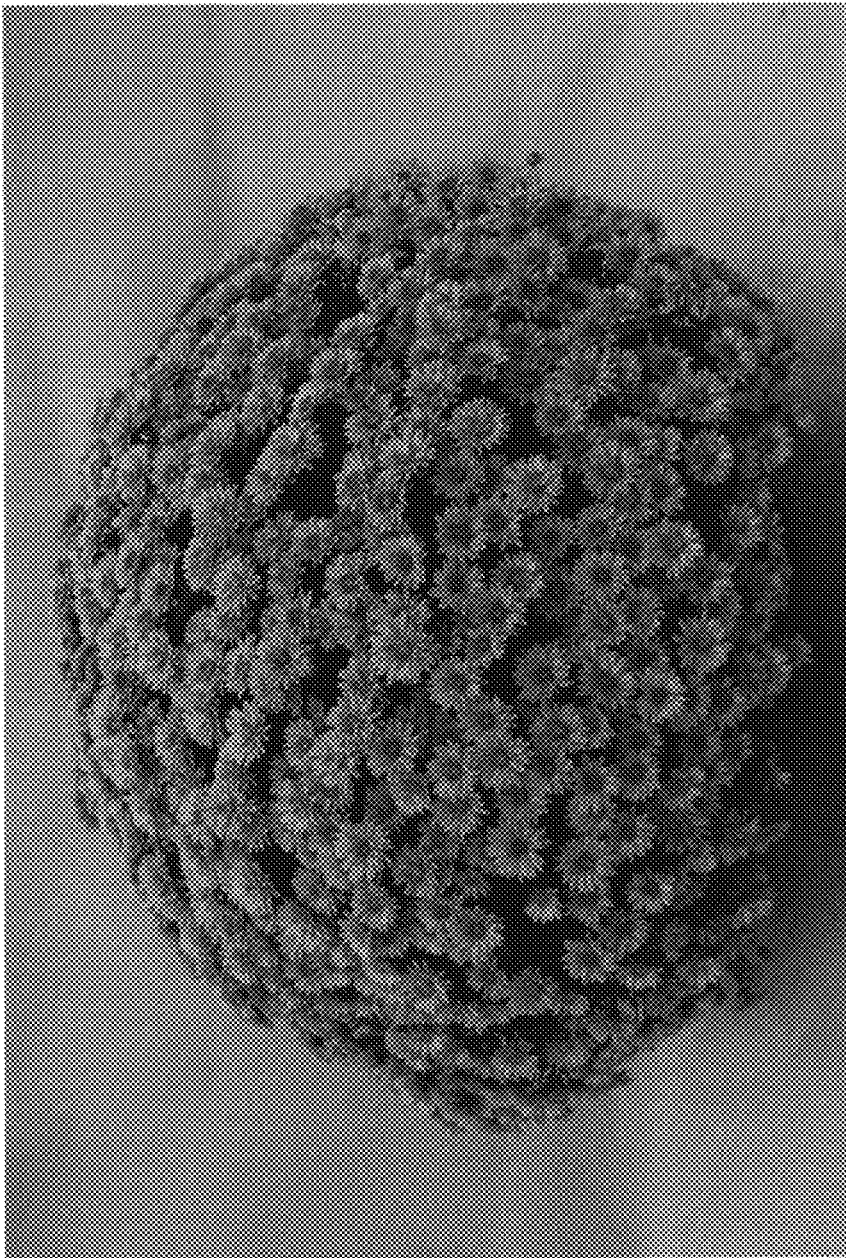


FIG. 1

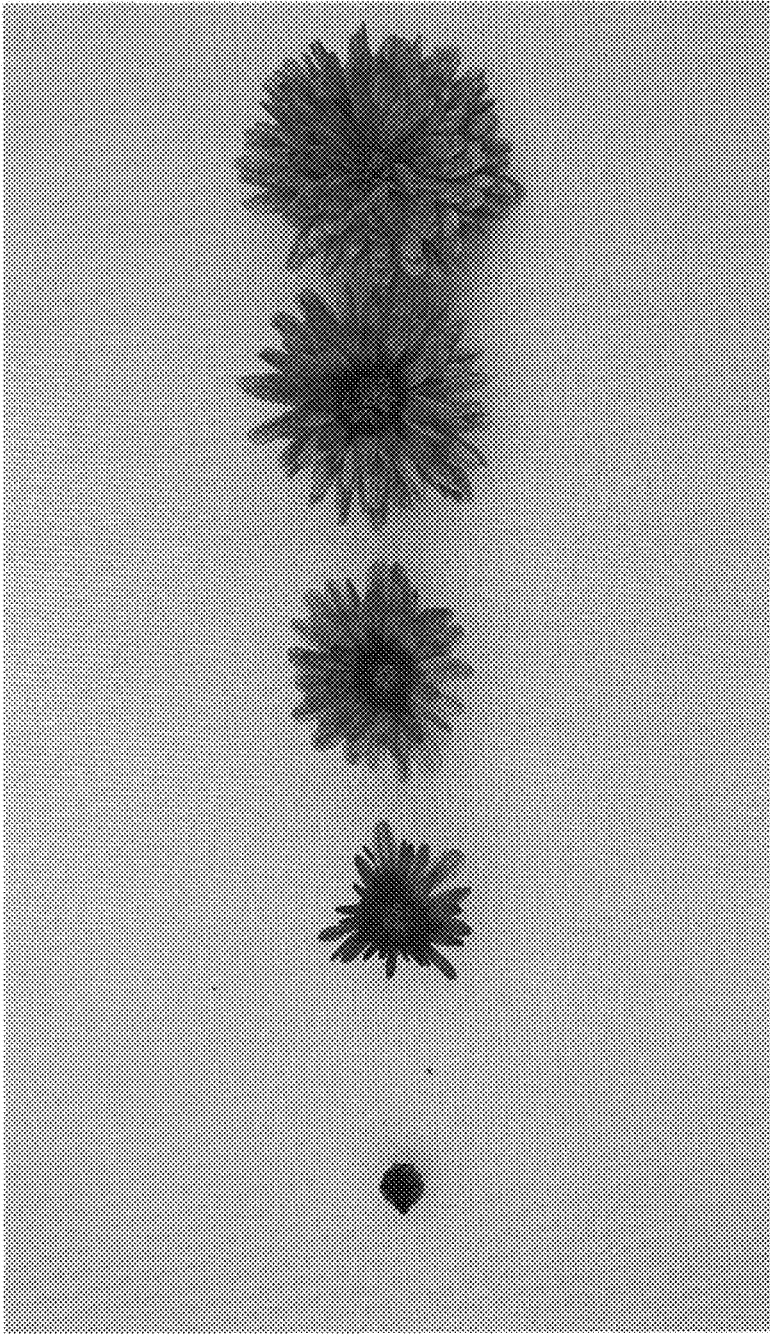


FIG. 2

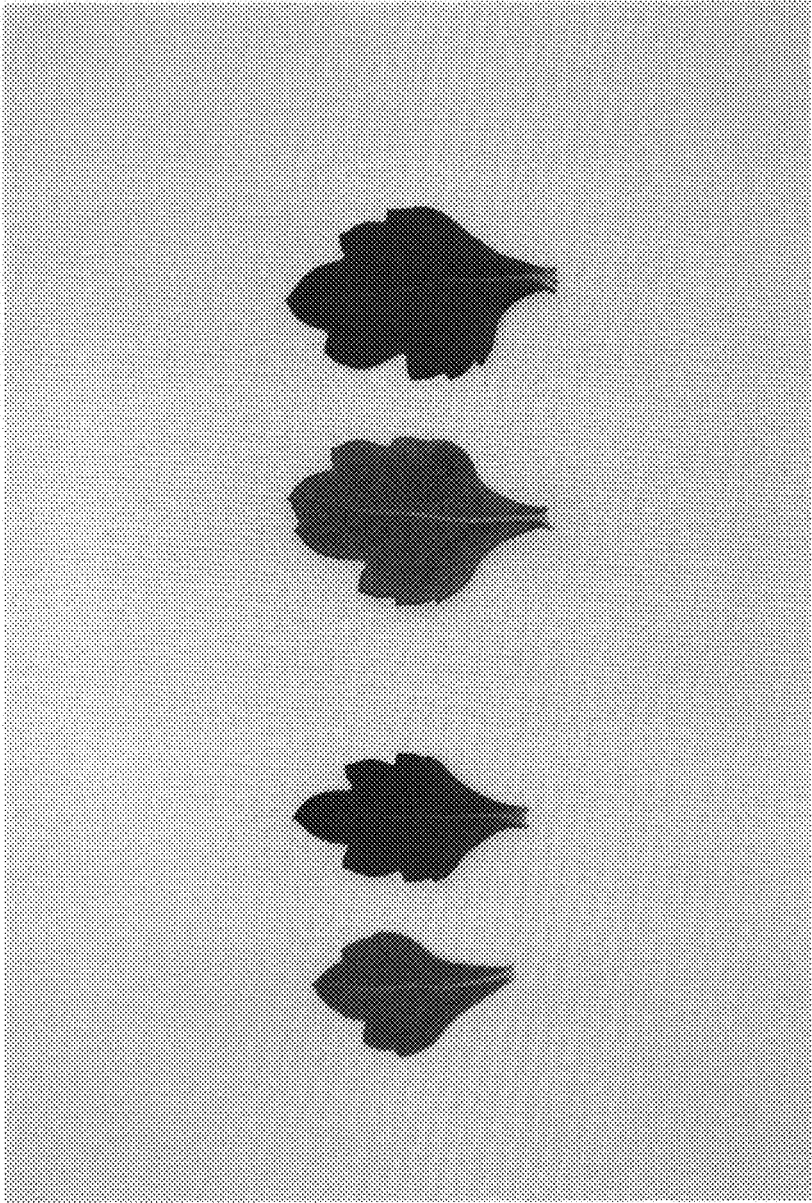


FIG. 3