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

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(54) **CHRYSANTHEMUM PLANT NAMED**
'SIZZLENESS PURPLE'

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

(50) Latin Name: *Chrysanthemum morifolium*
Varietal Denomination: **Sizzleness Purple**

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

(58) **Field of Classification Search** **Plt./287,**
Plt./291, 292

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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 92 days.

(57) **ABSTRACT**

A *Chrysanthemum* plant named 'Sizzleness Purple' charac-
terized by its medium size decorative inflorescences with
elongated quilled purple ray-florets, with a response time of
52 days.

(21) Appl. No.: **10/979,246**

(22) Filed: **Nov. 3, 2004**

3 Drawing Sheets

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RELATED CULTIVARS

'Sizzleness Purple' is related to 'Sizzleness' (U.S. Plant
patent application Ser. No. 10/782,856), of which plant it is
a color sport.

BACKGROUND OF THE INVENTION

'Sizzleness Purple' is a product of a breeding and selec-
tion program which had the objective of finding color
mutants of 'Sizzleness'. The new plant of the present
invention comprises a new and distinct cultivar of *chrysan-*
themum plant that is a natural occurring sport of a parent
chrysanthemum named 'Sizzleness'. A comparison with
parent *chrysanthemum* 'Sizzleness' is also made in this
application. The new cultivar was discovered as a sport in
2002 by Mark Roland Boeder in a controlled environment
(greenhouse) in Rijnsenhout, Holland. The first act of asexual
reproduction of 'Sizzleness Purple' was accomplished when
vegetative cuttings were from the initial selection in 2002 in
Rijnsenhout, Holland.

SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of
chrysanthemum bearing medium sized decorative blooms
with elongated quilled purple ray-florets and a green center.

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 new
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 observa-

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tions and measurements were gathered from plants grown in
April/May in a greenhouse in Rijnsenhout Holland in a
photo-periodic controlled crop under conditions generally
used in commercial practice. The greenhouse temperatures
during this crop were at day-time between 18° C. and 25° C.
and at night 20° C. After a long day period of 14 days the
photo-periodic response time in this crop was 52 days. After
the long day period to flowering growth retardants were
applied 2 to 3 times in an average dose of 2.5 gram/liter
water. No tests were done on disease or insect resistance or
susceptibility. No tests were done on cold or drought resis-
tance. This new variety produces medium sized blooms with
purple ray-florets and blooming on the plant for 5 weeks.
This new variety of *chrysanthemum* has been found to retain
its distinctive characteristics throughout successive propaga-
tions however the phenotype may vary significantly with
variations in environment such as light intensity and tem-
perature. To show the phenotype as described 'Sizzleness
Purple' can be planted without assimilation lightning (high
pressure sodium lamps) between week 1 and week 35 year
under greenhouse conditions in Holland. With assimilation
light (minimum level 2500 lux) it can be planted year round
under greenhouse conditions in Holland.

From the cultivars known to inventor the most similar
existing cultivars in comparison to 'Sizzleness Purple' is the
parent 'Sizzleness' and its sports 'Sizzleness Pink' (U.S.
Plant Pat. No. 15,504), and 'Sizzleness Salmon' (U.S. Plant
patent application Ser. No. 10/979,188). When 'Sizzleness
Purple', 'Sizzleness Pink', 'Sizzleness Salmon' and the
parent 'Sizzleness' are being compared the following dif-
ferences and similarities are noticed: The difference of
'Sizzleness' and its sports 'Sizzleness Purple', 'Sizzleness
Pink' and 'Sizzleness Salmon' is (1) Color ray florets. The
color is for 'Sizzleness' purple and cream, while it is purple
for 'Sizzleness Purple', pink for 'Sizzleness Pink', and dark
salmon for 'Sizzleness Salmon'. For which characteristic
'Sizzleness Purple' has been selected from the original
'Sizzleness'. All other characteristics of 'Sizzleness' and
'Sizzleness Purple' are similar.

The following is a description of the plant and charac-
teristics that distinguish 'Sizzleness Purple' 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 Color Chart, edition 1995.

TABLE 1

Botanical Description of cultivar 'Sizzleness Purple'	
<u>Bud</u>	
Size	Medium, cross-section 0.5 cm, height 0.5 cm
Outside color	Yellow 4D
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 138B
<u>Inflorescence</u>	
Type	Decorative
Height	3 cm
Size	Medium
Fully Expanded	5.5–6 cm
Peduncle length	Near the top 6 cm, near the middle 10 cm, near the bottom 14 cm.
Peduncle color	Green 138B
Number of inflorescences per stem	Average of 15–20
Performance on the plant	5 weeks
Seeds (if crossed)	Produced in small quantities, oval shaped, grey-brown 199A, 2 mm in length
<u>Fragrance</u>	
Color	Typical <i>chrysanthemum</i>
<u>Center of the flower</u>	
Color of upper surface of the ray-florets	Immature Yellow-green 145A Mature Yellow-green 154C Upper surface Red-purple 70A
Tonality from Distance	Lower surface Red-purple 70C A spray mum with purple flowers and a green disc
Color of the upper surface of the ray florets after aging of the plant	Red-purple 70A
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	100
Shape	Elongated quilled
Longitudinal axis of majority	Straight
Length of corolla tube	Long; 1.5 cm
Ray-floret margin	Entire
Ray-floret length	2 cm
Ray-floret width	0.2 cm
Ratio length/width	High
Shape of tip	Rounded
<u>Disc florets</u>	
Disc diameter	0.8 cm
Distribution of disc florets	Few, only visible in mature stage of flowering.
<u>Shape</u>	
Color	Tubular Yellow-green 154C
Receptacle shape	Domed raised
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	Thin
Stamen color	Yellow-green 144 B
Pollen	Produced in small quantity
Pollen color	Yellow-orange 14 A
Styles (present in both ray and disc florets)	Thick

TABLE 1-continued

Botanical Description of cultivar 'Sizzleness Purple'	
Style color	Yellow-green 150C
Style Length	4 mm
Stigma color	Yellow-green 145 D
Stigma Width	1 mm
Ovaries	Enclosed in perianth
<u>Plant</u>	
Form	A spray mum meant for erect culture
Growth habit	Upright
Growth rate	Medium vigor
Height	90 cm
Width	28 cm
Internode length	2–3 cm
Spray formation	Cylindrical
Stem Color	Yellow-green 148A with streaks of Greyed-red 182C at base
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Present
Flowering Response(photo-periodic controlled crop, not natural season)	52 Days
<u>Foliage</u>	
Color immature stage	Upper side Green 141B Under side Green 139C
Color mature stage	Upper side Green 137A Under side Green 138A
Color midvein	Upper side Yellow-green 145C Under side Yellow-green 148C
Size	Medium; length 11–15 cm, width 5–7 cm
Quantity (number per single stem)	30–32
Shape	Elliptic
Texture upper side	Fleshy and glabrous
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Dentate
Shape of Base of Sinus Between Lateral Lobes	Diverging
Margin of Sinus Between Lateral Lobes	Rounded
Shape of Base	Obtuse to truncate
Apex	Mucronulate
Petiole length	2 cm
Petiole color	Yellow-green 145C

TABLE 2

	Differences with the comparison Varieties			
	'Sizzleness Purple'	'Sizzleness Pink'	'Sizzleness Salmon'	'Sizzleness'
Color upperside ray-florets	Red-purple 70A	Red-purple 70B	Greyed-red 182B	Purple-violet 80C and Yellow 4D
Color lower side ray-florets	Red-purple 70C	Red-purple 70D	Greyed-red 182D	Purple-violet 80D and Yellow 4D

I claim:

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

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FIG. 1

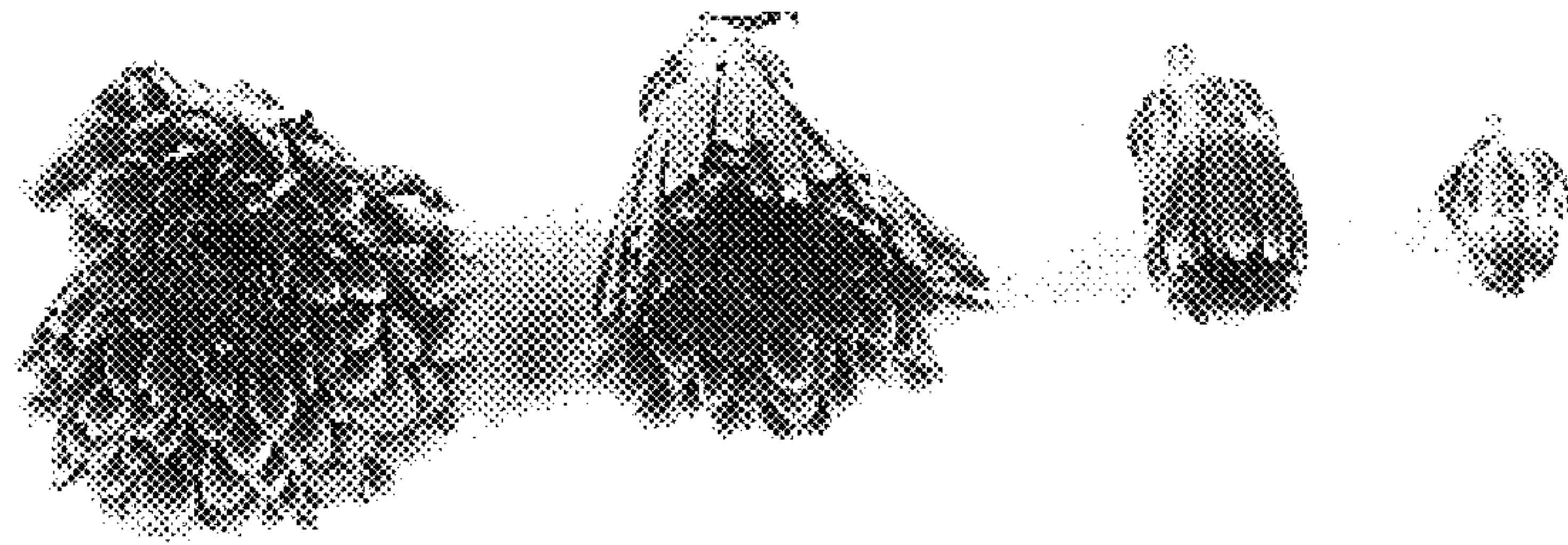


FIG. 2



FIG. 3