



US00PP15525P2

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

(10) **Patent No.:** **US PP15,525 P2**

(45) **Date of Patent:** **Feb. 1, 2005**

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

(22) Filed: **May 10, 2004**

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

(51) **Int. Cl.**⁷ **A01H 5/00**

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

(58) **Field of Search** **Plt./287**

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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 3 days.

A *chrysanthemum* plant named 'Sizzleness Yellow' charac-
terized by its medium decorative inflorescences with elon-
gated quilled purple/yellow ray-florets, with a response time
of 52 days.

(21) Appl. No.: **10/841,472**

3 Drawing Sheets

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RELATED CULTIVARS

'Sizzleness Yellow' is related to 'Sizzleness Pink'
(copending U.S. Plant patent application Ser. No. 10/841,
485) and 'Sizzleness Green' (copending U.S. Plant patent
application Ser. No. 10/841,484), which are all color sports
of the original 'Sizzleness' (U.S. Plant patent Ser. No.
10/782,856).

BACKGROUND OF THE INVENTION

'Sizzleness Yellow' 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 whole
plant mutation in 2002 by Mark Roland Boeder in a con-
trolled environment (greenhouse) in Rijnsenhout Holland.
The first act of asexual reproduction of 'Sizzleness Yellow'
was accomplished when vegetative cuttings were taken 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/yellow 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.

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DESCRIPTION OF THE INVENTION

This new variety of *chrysanthemum* is of the botanical
classification *Chrysanthemum morifolium* L. The observa-
tions and measurements were gathered from plants grown in
April/May in a greenhouse in Risjenhout 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 of
susceptibility. No tests were done on cold or drought resis-
tance. This new variety produces medium sized blooms with
purple/yellow 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
propagations however the phenotype may vary significantly
with variations in environment such as light intensity and
temperature. To show the phenotype as described 'Sizzle-
ness Yellow' can be planted without assimilation lightning
(high pressure medium lamps) between week 1 and week 35
year under greenhouse conditions in Holland. With assimi-
lation 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 Yellow' is the
parent 'Sizzleness', and 'Sizzleness Green' (copending U.S.
Plant patent applications). When 'Sizzleness Yellow',
'Sizzleness Green' and 'Sizzleness' are being compared the
following differences and similarities are noticed: The dif-
ference of 'Sizzleness', and its sports 'Sizzleness Green' and
'Sizzleness Yellow' is (1) Color ray florets. The color is for
'Sizzleness' purple and cream, while it is green for 'Sizzle-
ness Green' and purple/yellow for 'Sizzleness Yellow'. For
which characteristics 'Sizzleness Yellow' has been selected
out of 'Sizzleness'. All other characteristics of 'Sizzleness'
and 'Sizzleness Yellow' are similar.

The following is a description of the plant and character-
istics that distinguish 'Sizzleness Yellow' 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 1995.

TABLE 1

Botanical Description of cultivar 'Sizzleness Yellow'	
<u>Bud</u>	
Size	Medium, cross-section 0.6 cm, height 0.6 cm
Outside color	Yellow-green 145B
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	6 cm
Peduncle length	Near the top 7 cm, near the middle 10 cm, near the bottom 15 cm.
Peduncle color	Green 138B
Number of inflorescences per stem	Average of 20
Performance on the plant	5 weeks
Seeds (if crossed)	Produced in small quantities, oval shaped, grey-brown 199A, 2 mm in length. Typical <i>chrysanthemum</i>
<u>Fragrance</u>	
<u>Color</u>	
Center of the flower	Immature Yellow-green 145B Mature Yellow-green 154C
Color of upper surface of the ray-florets	Upper surface Greyed-red 182B with Yellow 10A at edges Lower surface Greyed-red 182C and Greyed-yellow 160B at edges
Tonality from Distance	A spray mum with purple/yellow flowers and a green disc
Color of the upper surface of the ray florets after aging of the plant	Greyed-red 182B and Yellow 10A at edges
<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; 2 cm
Ray-floret margin	Entire
Ray-floret length	2.5 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.
Shape	Tubular
Color	Yellow-green 154D
Receptacle shape	Domed raised
<u>Reproductive Organs</u>	
Stamen (present in disc florets only)	Thin
Stamen color	Yellow-green 144B
Pollen	Produced in small quantity

TABLE 1-continued

Botanical Description of cultivar 'Sizzleness Yellow'	
Pollen color	Yellow-orange 14A
Styles (present in both ray and disc florets)	Thick
Style color	Yellow-green 150C
Style Length	4 mm
Stigma color	Yellow-green 145D
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	2-3.5 cm
Spray formation	Cylindrical
Stem Color	Yellow-green 148A with streaks of Greyed-red 182B
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 137B Under side Green 138C
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 13-11 cm, width 6 cm
Quantity (number per single stem)	26-30
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
Apex	Mucronulate
Petiole length	2 cm
Petiole color	Yellow-green 145C

TABLE 2

	Differences with the comparison Varieties		
	'Sizzleness Yellow'	'Sizzleness Green'	'Sizzleness'
Color ray florets	Greyed-red 182B and Yellow 10A at edges	Yellow-green 145C	Purple-violet 80C and Yellow 4D at edges

I claim:

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

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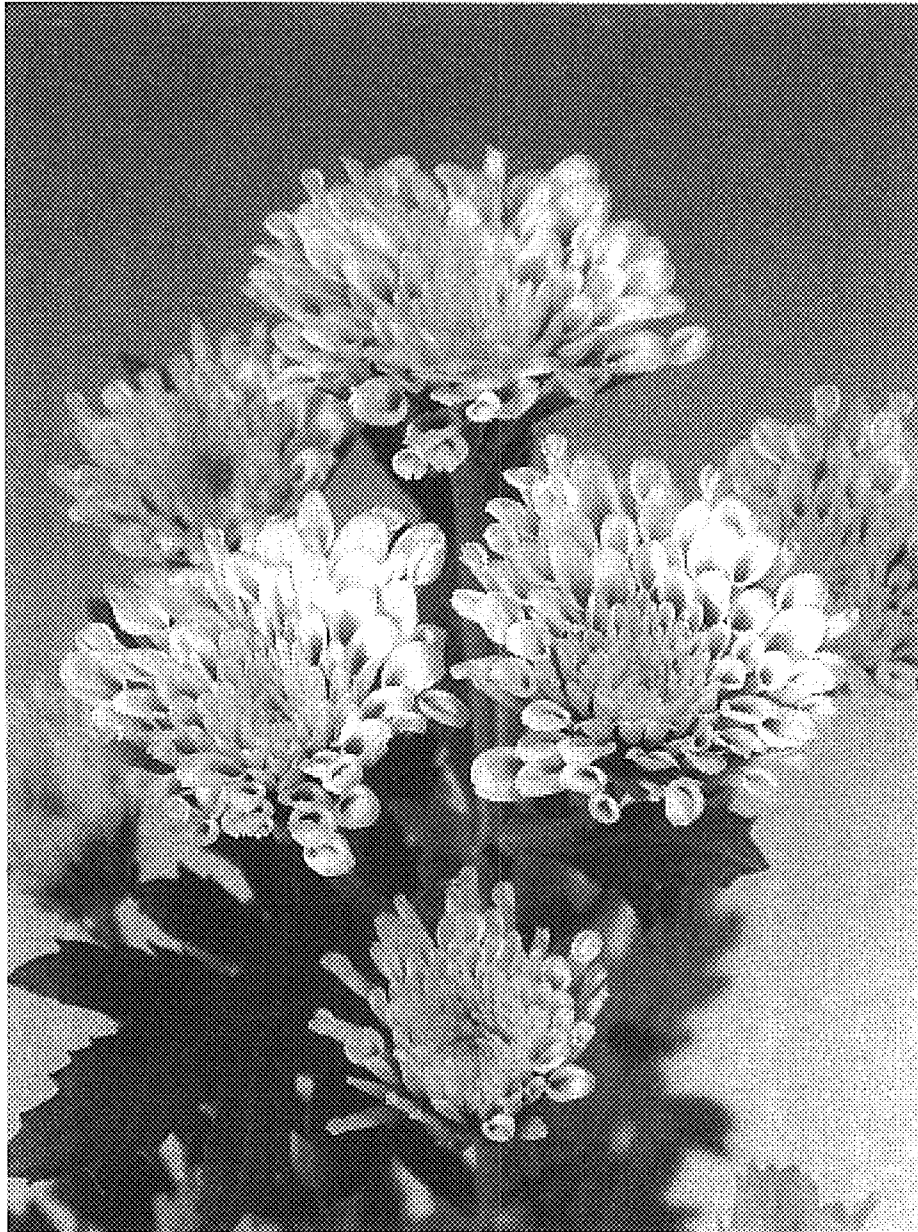


FIG. 1

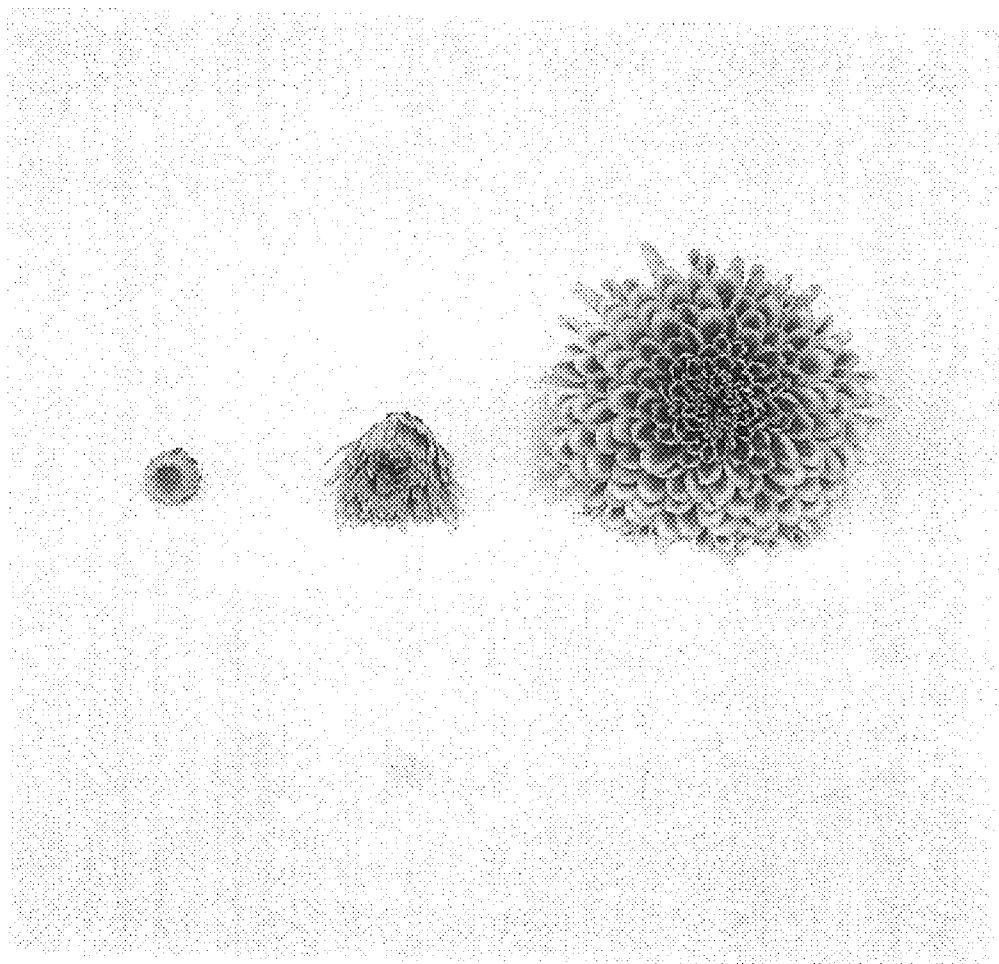


FIG. 2

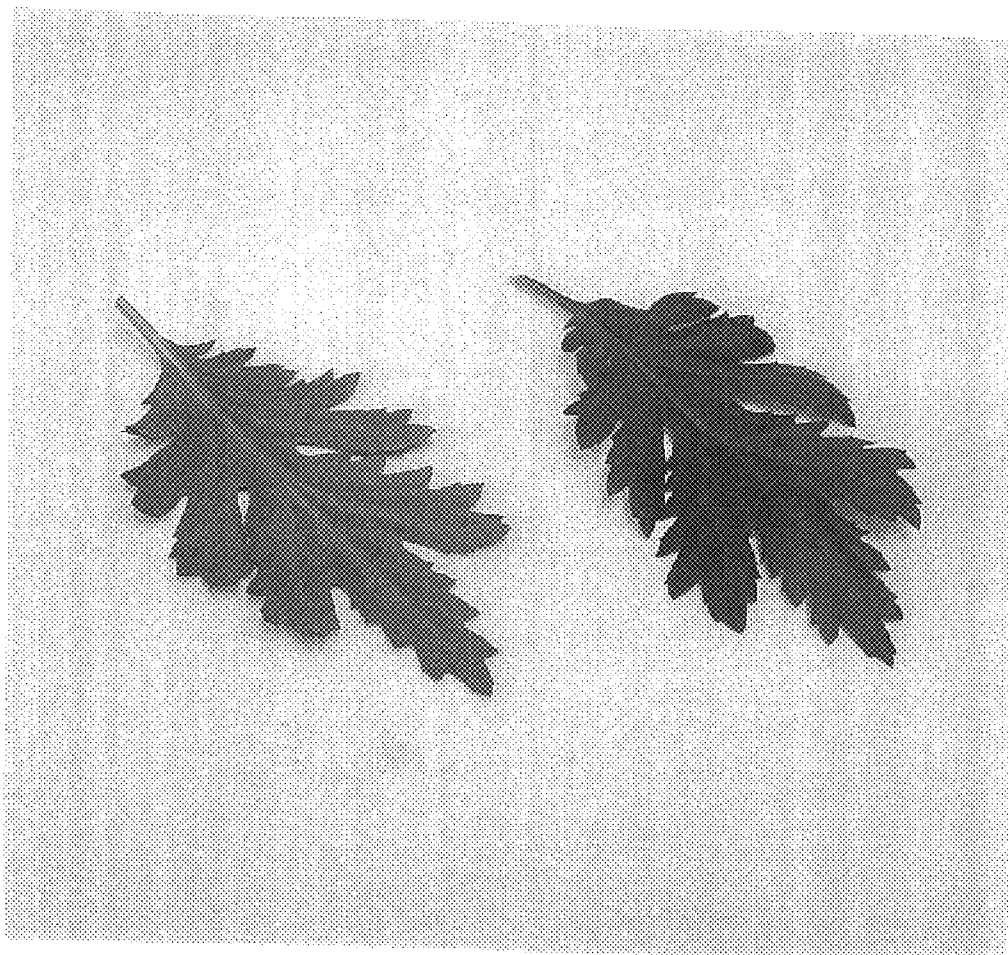


FIG. 3