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(12) **United States Plant Patent**  
**Blom**(10) **Patent No.:** US PP24,024 P3  
(45) **Date of Patent:** Nov. 12, 2013

- (54) **CHrysanthemum PLANT NAMED 'ZANMUAVAL PURPLE'**
- (50) Latin Name: *Chrysanthemum×morifolium* Ramat.  
Varietal Denomination: **Zanmuaval Purple**
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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 95 days.
- (21) Appl. No.: **13/385,347**
- (22) Filed: **Feb. 15, 2012**
- (65) **Prior Publication Data**  
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- (51) **Int. Cl.**  
**A01H 5/00** (2006.01)
- (52) **U.S. Cl.**  
USPC ..... **Plt./286**
- (58) **Field of Classification Search**  
USPC ..... Plt./286  
See application file for complete search history.

*Primary Examiner* — Annette Para(74) *Attorney, Agent, or Firm* — Steptoe & Johnson LLP**ABSTRACT**

A *chrysanthemum* plant named 'Zanmuaval Purple' characterized by its medium sized blooms with dark purple ray florets and prolific branching; natural season flower date week 42; blooming for a period of five weeks.

**3 Drawing Sheets****1**

Botanical designation: *Chrysanthemum×morifolium* Ramat.

Cultivar denomination: 'Zanmuaval Purple'.

**RELATED CULTIVARS**

5

**2**

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

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

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 22 in 2011. The natural blooming date of this crop was October 15 (week 42). The average height of the plants was 30 cm. No growth retardants were used. No tests were done on disease or insects resistance or susceptibility. No tests were done on cold or drought resistance. This new variety produces medium sized blooms with dark purple ray florets blooming for a period of five weeks.

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Zanmuaval Purple' is its parent plant 'Zanmuaval' (U.S. Plant Pat. No. 22,659).

The following is a description of the plant and characteristics that distinguish 'Zanmuaval 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 Colour chart, edition 2001.

**Detailed Botanical Description****Bud:***Size*.—Small; cross-section 0.5 cm, height 0.3 cm.*Shape*.—Oblate.*Texture*.—Pubescent.*Outside color*.—Greyed-green 191B.**Phyllaries:***Number*.—20-22, arranged in 3 rows.*Shape*.—Elliptic.**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.

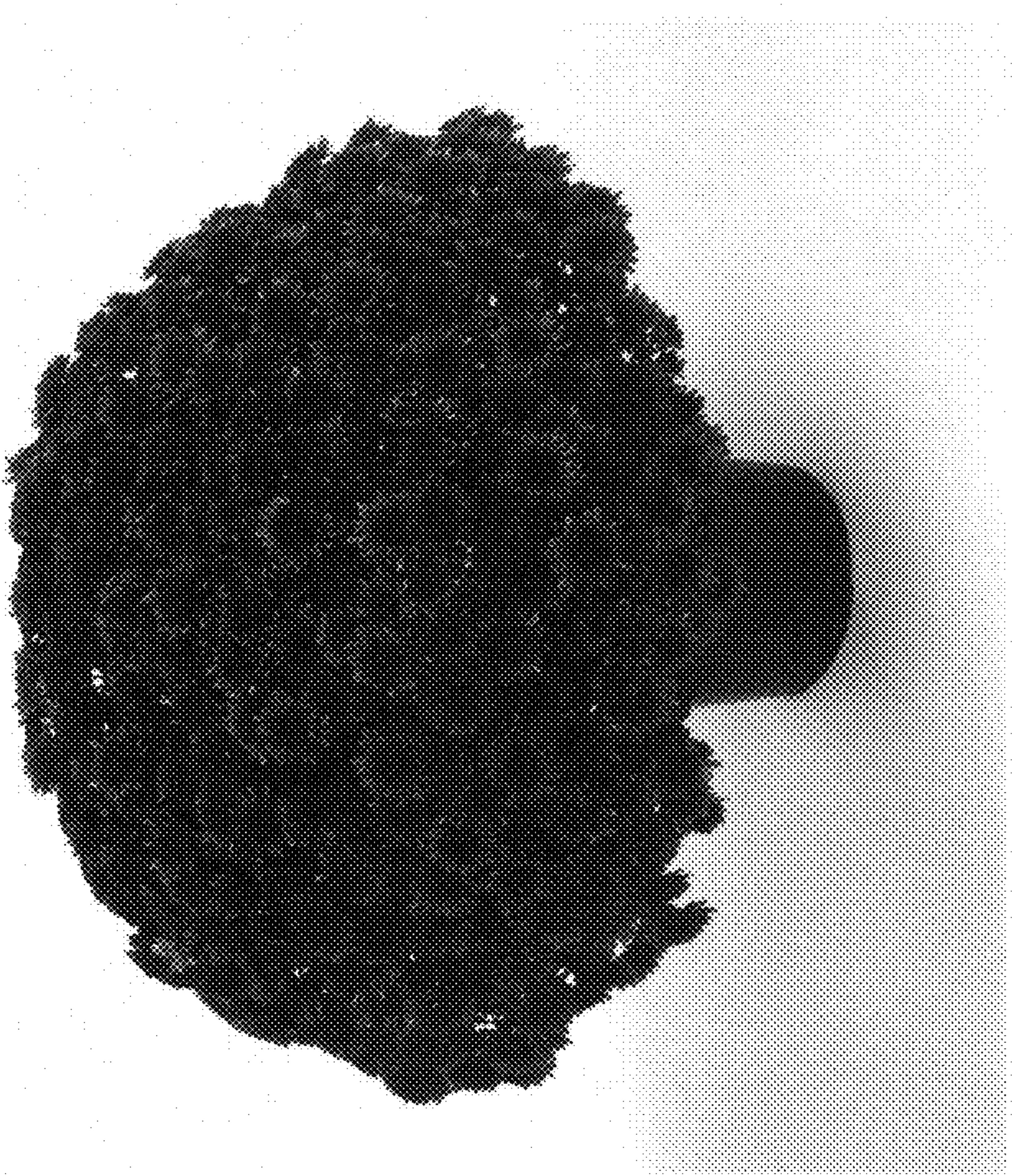
<i>Apex.</i> —Acute.		<i>Stigma color.</i> —Yellow 7A.
<i>Base.</i> —Truncate.		<i>Stigma width.</i> —1 mm.
<i>Margin.</i> —Entire.		<i>Ovary.</i> —Enclosed in calyx.
<i>Color.</i> —Upper surface: Greyed-green 191B. Lower surface: Green 138A.	5	<i>Plant:</i>
<i>Length and width.</i> —1 cm; 0.1 cm.		<i>Form.</i> —Grown as a spray type pot mum, outdoor raised and mounded.
<i>Texture.</i> —Pubescent.		<i>Growth habit.</i> —Spherical shape.
<i>Inflorescence:</i>		<i>Growth rate.</i> —Medium.
<i>Type.</i> —Double.		<i>Height.</i> —30 cm.
<i>Height.</i> —1.5 cm.	10	<i>Width.</i> —50 cm.
<i>Diameter.</i> —5 cm.		<i>Stem color.</i> —Greyed-brown 199A.
<i>Peduncle length.</i> —5-6 cm.		<i>Stem strength.</i> —Weak.
<i>Peduncle color.</i> —Green 138C.		<i>Stem brittleness.</i> —Brittle.
<i>Peduncle diameter.</i> —0.2 cm.		<i>Stem anthocyanin coloration.</i> —Present, streaks of Greyed-orange 177B.
<i>Peduncle texture.</i> —Pubescent.	15	<i>Internode length.</i> —2-4 cm.
<i>Number per branch.</i> —Approx. 6 inflorescences.		<i>Length of lateral branch.</i> —From top to bottom 20 cm.
<i>Duration of flowering.</i> —5 weeks.		<i>Lateral branch color.</i> —Green 137 C.
<i>Seeds.</i> —Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.8 mm.		<i>Lateral branch attachment.</i> —Brittle.
<i>Fragrance.</i> —Faint <i>chrysanthemum</i> odor.	20	<i>Lateral branch diameter.</i> —2 mm.
<i>Color:</i>		<i>Branching (average number of lateral branches).</i> —Prolific with 8-9 breaks after pinching.
<i>Center of inflorescences.</i> —Immature stage: Purple N77A. Mature stage: Purple N77A.		<i>Natural season blooming date.</i> —October 17-21 (week 42).
<i>Color of upper surface of the ray-florets.</i> —Purple N79B.		<i>Foliage:</i>
<i>Color of the lower surface of the ray-florets.</i> —Greyed-Purple 186C.	25	<i>Leaf color.</i> —Upper side: Green 139A. Lower side: Green N138A.
<i>Tonality from distance.</i> —A garden mum with dark purple flowers.		<i>Color midvein.</i> —Upper side: Yellow-green 147D. Lower side: Yellow-green 148D.
<i>Color of the ray-florets after aging of the plant.</i> —Purple N77D.	30	<i>Size.</i> —Small; length 3-5 cm, width 2-3.5 cm.
<i>Ray florets:</i>		<i>Quantity (number per lateral branch).</i> —15-17.
<i>Texture.</i> —Upper and lower surface smooth.		<i>Shape.</i> —Elliptic.
<i>Number.</i> —240-260.		<i>Texture upper side.</i> —Sparsely pubescent.
<i>Shape.</i> —Elliptic.		<i>Texture under side.</i> —Pubescent.
<i>Type.</i> —Predominantly ligulate.	35	<i>Venation arrangement.</i> —Palmate.
<i>Apex.</i> —Varying from dentate to acute.		<i>Shape of the margin.</i> —Serrated.
<i>Base.</i> —Attenuate.		<i>Shape of base of sinus between lateral lobes.</i> —Rounded.
<i>Cross-section.</i> —Flat.		<i>Margin of sinus between lateral lobes.</i> —Diverging.
<i>Longitudinal axis of majority.</i> —Straight.		<i>Shape of base.</i> —Truncate.
<i>Length of corolla tube.</i> —0.3-0.4 cm.	40	<i>Apex.</i> —Mucronulate.
<i>Ray-floret margin.</i> —Entire.		<i>Petiole length.</i> —0.3-0.8 cm.
<i>Ray-floret length.</i> —1.5-2.3 cm.		<i>Petiole diameter.</i> —0.2-0.4 cm.
<i>Ray-floret width.</i> —0.2-0.4 cm.		<i>Petiole color.</i> —Yellow-green 147D.
<i>Ratio length/width.</i> —High.		
<i>Disc florets:</i> Absent.	45	
<i>Receptacle:</i>		
<i>Color.</i> —Green 138C.		
<i>Shape.</i> —Conical raised.		
<i>Height.</i> —0.4 cm.		
<i>Diameter.</i> —0.4 cm.		
<i>Reproductive organs:</i>		
<i>Androecium.</i> —Absent.		
<i>Pollen.</i> —Not produced.		
<i>Gynoecium.</i> —Present in ray-florets.		
<i>Style length.</i> —3 mm.	50	

TABLE 1

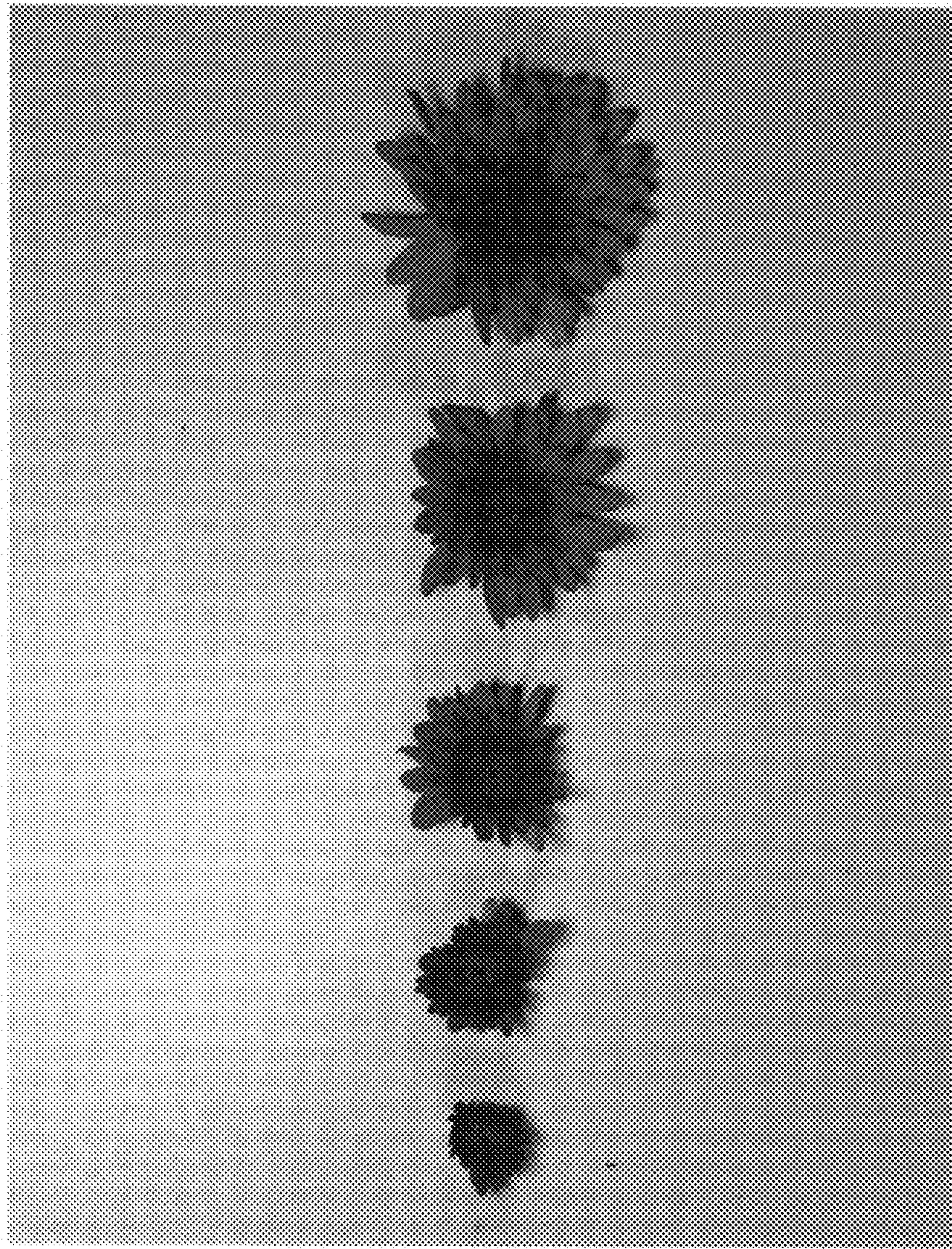
Differences with the comparison varieties		
Color upper surface ray-florets	'Zanmuaval Purple' Purple N79B	'Zanmuaval' Purple N79C

I claim:

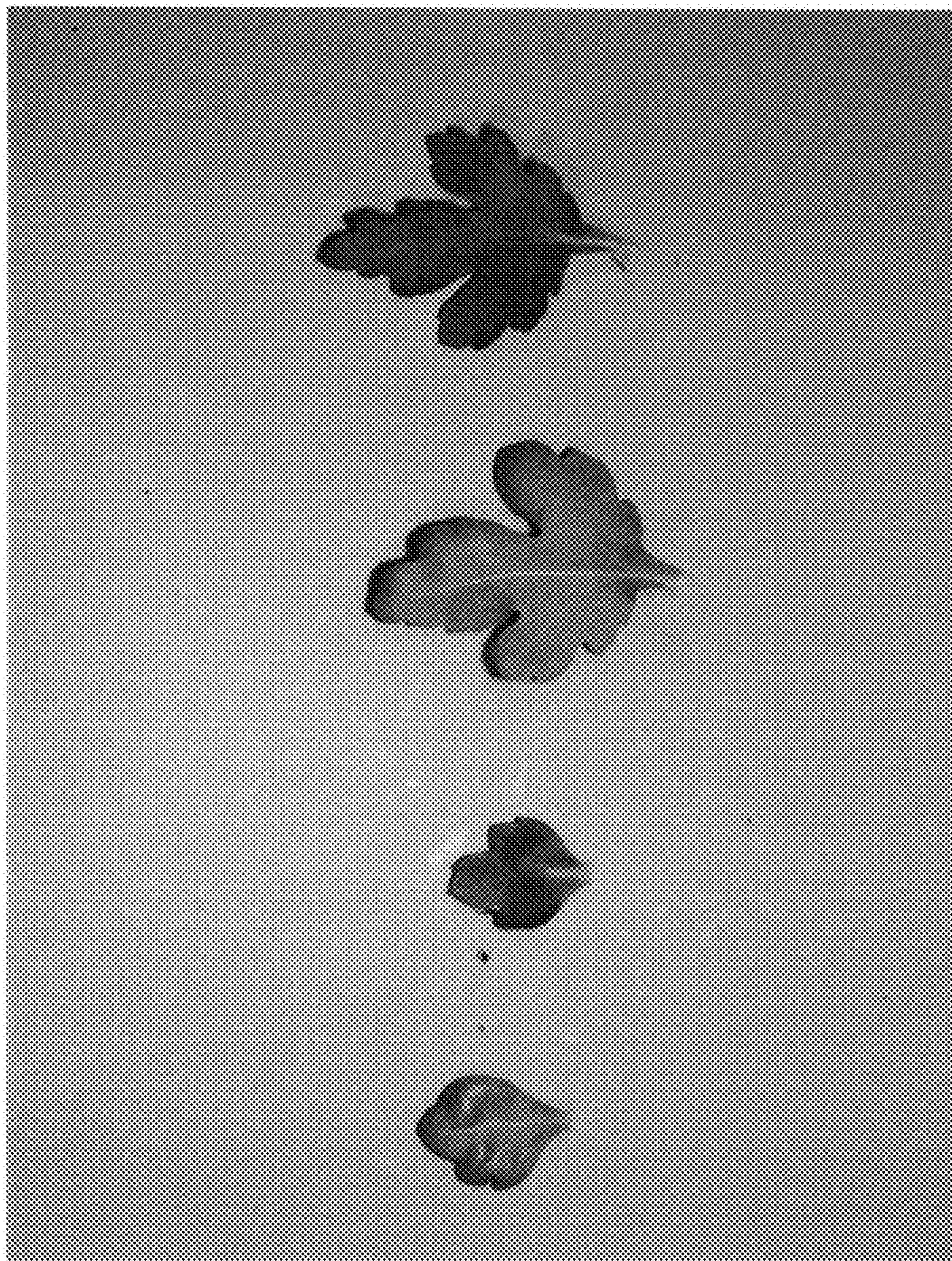
1. A new and distinct variety of *chrysanthemum* plant as described and illustrated.



**FIG. 1**



**FIG. 2**



**FIG. 3**