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

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(54) **CHRYSANTHEMUM PLANT NAMED ‘TATOI’**

(50) Latin Name: *Chrysanthemum morifolium L.*
Varietal Denomination: **Tatoi**

(75) Inventor: **Mark Roland Boeder**, The Hague
(NL)

(73) Assignee: **Chrysanthemum Breeders Association**
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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 0 days.

(21) Appl. No.: **11/304,551**

(22) Filed: **Dec. 16, 2005**

(65) **Prior Publication Data**

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

(52) **U.S. Cl.** **Plt./290**

(58) **Field of Classification Search** **Plt./290**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2007/0143900 P1 * 6/2007 Boeder **Plt./286**

* cited by examiner

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(57) **ABSTRACT**

A *chrysanthemum* plant named ‘Tatoi’ characterized by its
medium sized blooms with bronze ray florets and prolific
branching; natural season flower date September 13–18;
blooming for a period of 5 weeks.

3 Drawing Sheets

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BACKGROUND OF THE INVENTION

‘Tatoi’ is a product of a breeding and selection program
for outdoor pot mums (garden mums) which had the objec-
tive of creating new *chrysanthemum* cultivars with a deco-
rative type flower, a natural season flowers date around
September 13–18; blooming for a period of 5 weeks. The
new plant of the present invention comprises a new and
distinct cultivar of *chrysanthemum* plant. ‘Tatoi’ is a seed-
ling resulting from a crossing program, set up by a previous
breeder, and which records are unknown to the inventor. The
new and distinct cultivar was discovered and selected as a
flowering plant by Mark Roland Boeder on a cultivated field
in Rijsenhout, The Netherlands in 2001. The first act of
asexual production of ‘Tatoi’ was accomplished when veg-
etative cuttings were taken from the initial selection in 2001
and propagated further in a controlled environment in
Rijsenhout, The Netherlands. The new cultivar has been
found to retain its distinctive characteristics through succes-
sive propagations.

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 plants of the cultivar in full bloom.

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

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

The plant shown in the photographic drawings was fifteen
(15) weeks old when those photographs were taken.

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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
out door in Rijsenhout, The Netherlands under natural day
length and temperature and planted in week 24 in 2004. The
natural blooming date of this crop was September 13–18
(week 38). The average height of the plants was 40 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 bronze ray florets blooming for
a period of 5 weeks.

From the cultivars known to inventor the most similar
cultivar in comparison to ‘Tatoi’ is ‘Iduna’ (U.S. Plant Pat.
No. 14,925). When ‘Iduna’ and ‘Tatoi’ are being compared
the following difference is noticed: The difference of ‘Iduna’
and ‘Tatoi’ are (1) Color ray-florets. And (2) Color flower
center (1) The ray-florets of ‘Iduna’ are more soft orange
than those of ‘Tatoi’. (2) The flower center of ‘Iduna’ is
darker colored than that of ‘Tatoi’.

The following is a description of the plant and character-
istics that distinguish ‘Tatoi’ as a new and distinct variety.

The color designations are taken from the plant itself.
Accordingly, any discrepancies between the color designa-
tions 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 <i>chrysanthemum</i> plant 'Tatoi'	
<u>Bud</u>	
Size	Small; cross-section 0.8 cm, height 0.6 cm
Outside Color	Yellow-green 145D
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 138B
<u>Bloom</u>	
Type	Double
Height	2 cm
Size	Medium
Fully Expanded	5.5 cm
Peduncle length	7-11 cm
Peduncle color	Green 138C
Number of blooms per branch	Approx. 5 blooms per branch
Performance on the plant	5 weeks
Seeds	Produced in small quantities, ovate grey-brown 199A, 1½ mm in length.
Fragrance	Typical <i>chrysanthemum</i> , slightly
<u>Color</u>	
Center of the flower	Immature Greyed-orange 172B Mature Greyed-orange 172B
Color of upper surface of the ray-florets	Greyed-orange 163B to 168C
Color of the lower surface of the ray-florets	Greyed-orange 163C-D
Tonality from Distance	A garden mum with bronze flowers
Color of the ray-florets after aging of the plant	Greyed-orange 165 C-D
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	220-230
Cross-section	Flat to convex
Longitudinal axis of majority	Straight to reflexing
Length of corolla tube	0.7-1 cm
Ray-floret margin	Entire
Ray-floret length	2.5 cm
Ray-floret width	0.6 cm
Ratio length/width	Medium
Shape of tip	Rounded
<u>Disc florets</u>	
Disc diameter	0.1 cm
Distribution of disc florets	Few, only visible in mature stage
Shape	Tubular
Color	Yellow 11D
Receptacle shape	Conical raised
<u>Reproductive Organs</u>	
Stamen	Present in disc florets only
Stamen color	Yellow-green 144A
Pollen	Present
Pollen color	Yellow 7A
Styles	Thin
Style color	Yellow 13A
Style Length	0.3 cm
Stigma color	Yellow-green 144A

TABLE 1-continued

Botanical Description of <i>chrysanthemum</i> plant 'Tatoi'	
Stigma Width	1 mm
Ovaries	Enclosed in calyx
<u>Plant</u>	
Form	Grown as spray type potmum, outdoor mounded and round
Growth habit	Spherical shape
Growth rate	High
Height	40 cm
Width	45 cm
Stem Color	Greyed-brown 199C
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Absent
Internode length	3-3.5 cm
Length of lateral branch	From top to bottom 21 cm
Lateral branch color	Green 138B to Yellow-green 147C
Lateral branch, attachment	Medium strength
Branching (average number of lateral branches)	Prolific with 10 breaks after pinching
Natural season blooming date	September 13-18
<u>Foliage</u>	
Leaf color	Upper side Green 137A-138A Lower side Green 138B-139C
Color midvein	Upper side Yellow-green 147D Lower side Yellow-green 148D
Size	Small; length 3.5-5.5 cm, width 2.5-3 cm
Quantity (number per lateral branch)	15-25
Shape	Elliptic-ovate
Texture upper side	Glabrous
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Serrated
Shape of Base of Sinus	Rounded
Between Lateral Lobes	
Margin of Sinus Between	Diverging
Lateral Lobes	
Shape of Base	Acute
Apex	Mucronulate
Petiole length	1-1.5 cm
Petiole color	Green 137A-138A

TABLE 2

	<u>Differences with the comparison variety</u>	
	'Tatoi'	'Iduna'
Color ray-florets	Greyed-orange 163B to 168C	Yellow-orange 22C
Color flower center	Greyed-orange 172B	Greyed-red 179A

I claim:

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

* * * * *



Figure 1

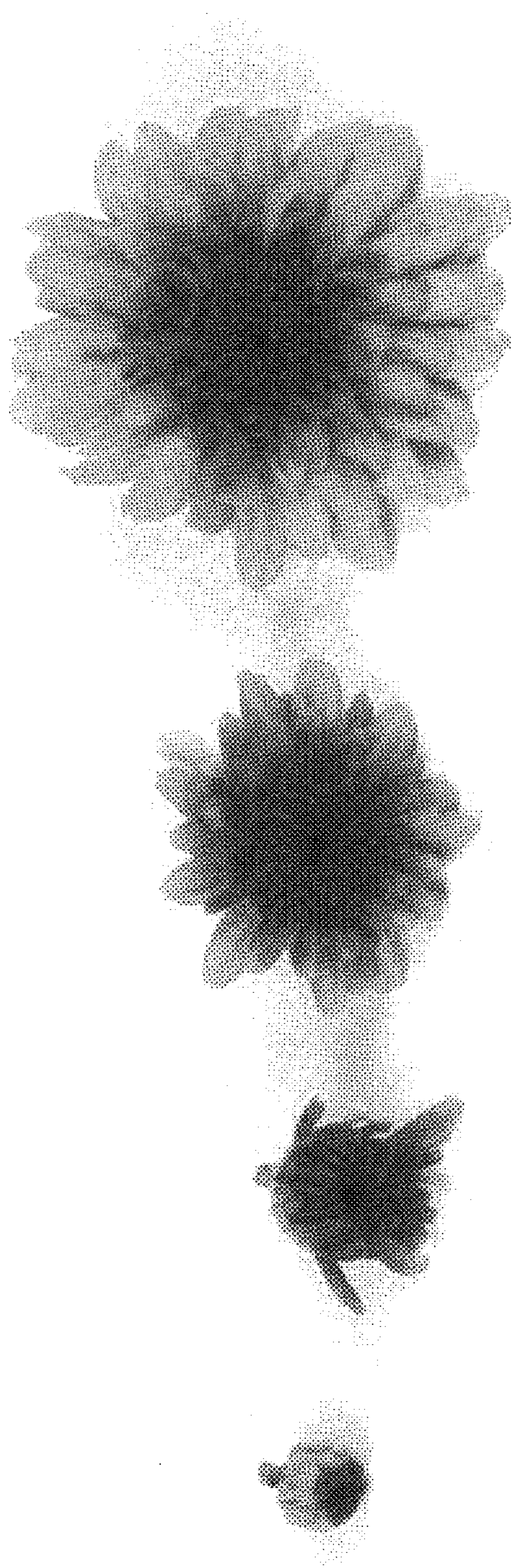


Figure 2

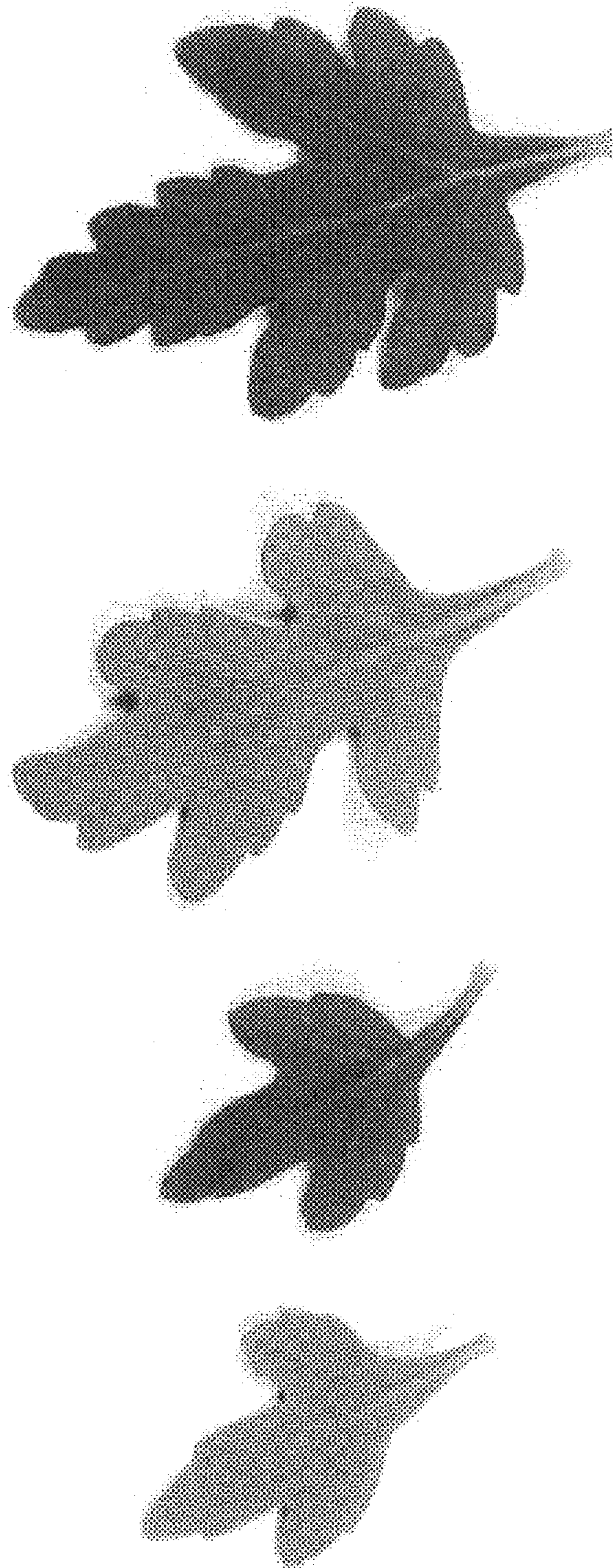


Figure 3