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Danziger

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(54) **CHRYSANTHEMUM PLANT NAMED**
'DANAT213'

(50) Latin Name: *Chrysanthemum morifolium*
Varietal Denomination: **Danat213**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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(30) **Foreign Application Priority Data**

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

(52) **U.S. Cl.** **Plt./289**

(58) **Field of Classification Search** Plt./289
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP15,045 P3 * 7/2004 Danziger Plt./294

OTHER PUBLICATIONS

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(57) **ABSTRACT**

A new and distinct *Chrysanthemum* plant named 'Danat213'
characterized by having inflorescence with oblong shaped,
yellow ray florets, and bell shaped, yellow disc florets;
flowering time of 7.5 weeks; short day plant; and vigorous
growth habit.

2 Drawing Sheets

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Botanical designation: *Chrysanthemum morifolium*.
Variety denomination: 'Danat213'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Chrysanthemum* plant, botanically known as *Chrysanthe-*
mum morifolium, hereinafter referred to by the cultivar name
'Danat213'.

The new cultivar 'Danat213' is a product of a planned
mutant selection and monitoring program in Moshav Mish-
mar Hashiva, Israel, with the objective of finding color
mutants of the *Chrysanthemum morifolium* cultivar 'Dan-
chryat'.

The new cultivar 'Danat213' originated from an induced
mutation on a single flowering plant of the *Chrysanthemum*
morifolium cultivar 'Danchryat' (patented, U.S. Plant Pat.
No. 15,045), and grown in a controlled, cultivated environ-
ment in Moshav Mishmar Hashiva, Israel. The parental
cultivar 'Danchryat' is also known by the commercial vari-
ety name Atlantis.

The new cultivar 'Danat213' was discovered and selected
by the inventor, Gabriel Danziger, as an induced, whole
plant mutation of 'Danchryat' in 2003 in Moshav Mishmar
Hashiva, Israel. The mutation arose by radiation.

Asexual reproduction of the new cultivar by stem cutting
was first performed in January of 2004 in Moshav Mishmar
Hashiva, Israel, and has demonstrated that the combination
of characteristics as herein disclosed for the new cultivar are
firmly fixed and retained through successive generations of
asexual reproduction. The new cultivar reproduces true to
type.

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BRIEF SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and
are determined to be unique characteristics of 'Danat213'
which in combination distinguish this *Chrysanthemum* as a
new and distinct cultivar:

1. Inflorescence with oblong shaped, yellow ray florets,
and bell shaped, yellow disc florets;
2. Flowering time of 7.5 weeks;
3. Short day plant; and
4. Vigorous growth habit.

Plants of the new cultivar 'Danat213' differ from plants of
the parental cultivar 'Danchryat' as described in Table 1.

TABLE 1

Characteristic	'Danat213'	'Danchryat' (patented, PP15,045)
Inflorescence Diameter	9.5 cm.	9.5 cm.
Flowering Time	7.5 weeks	7.5 weeks
Growth Potency	Medium-High	Medium-High
Ray Floret Color	Yellow, RHS 4-C	White, RHS 155-D
Disk Floret Color (when opening)	Yellow green, RHS N144-B	Yellow green, RHS 146-B

Of the many commercial cultivars known to the present
inventor, the most similar in comparison to 'Danat213' is the
parental cultivar 'Danchryat' as described in Table 1.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographs illustrate the overall
appearance of the new *Chrysanthemum* cultivar 'Danat213'

showing the colors as true as is reasonably possible with colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description, which accurately describe the colors of 'Danat213'.

FIG. 1 shows a side view perspective of a corymb of 'Danat213'.

FIG. 2 shows a close-up view of an inflorescence of 'Danat213'.

DETAILED BOTANICAL DESCRIPTION

'Danat213' has not been observed under all possible environmental conditions. The phenotype of the new cultivar may vary with variations in environment such as temperature, light intensity, and daylength without any change in the genotype of the plant.

The aforementioned photographs, together with the following observations, measurements and values describe the new cultivar 'Danat213' as grown in a greenhouse in Moshav Mishmar Hashiva, Israel, under conditions which closely approximate those generally used in commercial practice. Plants of 'Danat213' are mainly grown in greenhouses, but can also be grown outdoors during the summer. The recommended temperature range for growing plants of 'Danat213' in a greenhouse are: day temperature range of 22° C. to 23° C., and evening temperature range of 17° C. to 18° C. For premium growth conditions, plants of 'Danat213' are irrigated and fertilized on a regular basis using moderate regim. Plants of 'Danat213' are treated with the growth retardant, Alar (B-Nine), at a concentration of 3 gr/L.

Color references are made to The Royal Horticultural Society Colour Chart (R.H.S.,) ed. 2001, except where general colors of ordinary significance are used. Color values were taken under daylight conditions at approximately 12:00 noon in Moshav Mishmar Hashiva, Israel. The age of the plant described is 11 weeks from planting.

Classification:

Botanical.—*Chrysanthemum morifolium*.

Commercial.—*Chrysanthemum* cv. 'Atlantis Lemon'.

Parentage:

Parental cultivar.—Induced mutation of *Chrysanthemum morifolium* cultivar 'Danchryat' (patented, U.S. Plant Pat. No. 15,045).

Propagation: Stem cutting.

Plant:

General appearance and form.—Height: 90 cm. Width: 20 cm. Shape: Compound corymbiform.

Flowering response.—Short day type.

Flowering season.—Autumn and beginning of winter.

Winter hardiness.—Hardy in moderate climate.

Lastingness of the individual bloom.—3 to 3.5 weeks (on the stem).

Rooting habit.—Adventitious roots from cutting base.

Time to initiate roots.—6 to 7 days.

Fragrance.—None.

Foliage:

Leaf length.—10 cm.

Leaf width.—5.5 cm.

Overall shape of leaf.—Pinnatipartite.

Apex shape.—Rounded.

Base shape.—Wedge-shaped.

Margin.—Serrate.

Texture.—Slightly warty.

Color of upper surface.—Mature leaf: Yellow-green, RHS 147-A. Immature leaf: Yellow-green, RHS 147-A.

Color of lower surface.—Mature leaf: Yellow-green, RHS 147-B. Immature leaf: Yellow-green, RHS 147-B.

Venation.—Pattern: Pinnate. Color: Upper surface: Yellow-green 147-B. Lower surface: Yellow-green 147-C.

Petiole.—Length: 2 cm. Diameter: 4 mm. Color: Yellow-green, RHS 146-A.

Stem.—Average length: 85 to 90 cm. Average diameter: 8 to 10 mm. Color: Yellow-green, RHS 146-B. Internode length: 15 to 20 mm.

Inflorescence:

Flowering response.—Short day.

Quantity of inflorescences on average.—7 to 8 on average per stem.

Inflorescence bud.—Height: 1 cm. Diameter: 16 mm. Color: Yellow-green, RHS 146-B.

Inflorescence size.—Diameter: 9.5 cm. Depth (height): 18 to 20 mm. Diameter of disc: 18 mm.

Ray florets.—Number of ray florets per inflorescence: 30 to 32. Orientation: Upward. Length: 35 to 40 mm. Width: 12 to 13 mm. Apex width: 4 to 8 mm. Overall shape: Oblong. Apex shape: Rounded (obtuse). Base shape: Fused. Margin: Entire. Texture: Smooth. Color when opening: Yellow group, RHS 4-C. Color when fully opened: Upper surface: Yellow group, RHS 4-C. Lower surface: Yellow group, RHS 5-C.

Disc florets.—Number of disc florets per inflorescence: 200 to 220. Length: 4 to 5 mm. Width: 1 mm. Overall shape: Bell shaped (campanulate). Apex shape: Toothed. Base shape: Fused. Margin: Entire. Texture: Smooth. Color when opening: Yellow-green, RHS N144-B. Color when fully opened: Upper surface: Yellow, RHS 9-A. Lower surface: Yellow, RHS 9-C.

Phyllaries.—Average number: 15 to 18. Average length: 6 to 9 mm. Average width: 1 to 2 mm. Overall shape: Oblong. Apex shape: Rounded (obtuse). Base shape: Truncate. Margin: Entire. Color: Upper surface: Yellow green, RHS 148-B. Lower surface: Yellow green, RHS 144-A.

Peduncles.—Aspect: Upward. Length: 15 cm. Diameter: 3.5 to 4 mm. Texture: Slightly warty. Color: Yellow-green, RHS 146-B.

Reproductive organs:

Androecium.—Present in disc florets only. Stamen: Number: 5, fused as a tube. Length: 5 mm. Color: Yellow, RHS 13-A. Anthers: Color: Yellow, RHS 13-A. Pollen: Color: Yellow, RHS 13-A.

Gynoecium.—Present in both ray and disc florets. Style: Length: 5 to 6 mm. Color: Yellow, RHS 2-B. Stigma: Width: 0.3 mm. Color: Yellow, RHS 12-B. Ovary: Color: Yellow-green, RHS 149-D. Seeds: Length: 1.5 mm. Width: 0.8 to 1 mm. Shape: Oblong. Color: Grayed-green 197-A. Fruit: Shape: Achene. Color: Grayed-green, RHS 197-A.

Disease resistance/susceptibility: None observed under regular growing conditions.

I claim:

1. A new and distinct *Chrysanthemum* plant named 'Danat213', substantially as illustrated and described herein.

* * * * *



FIGURE 1

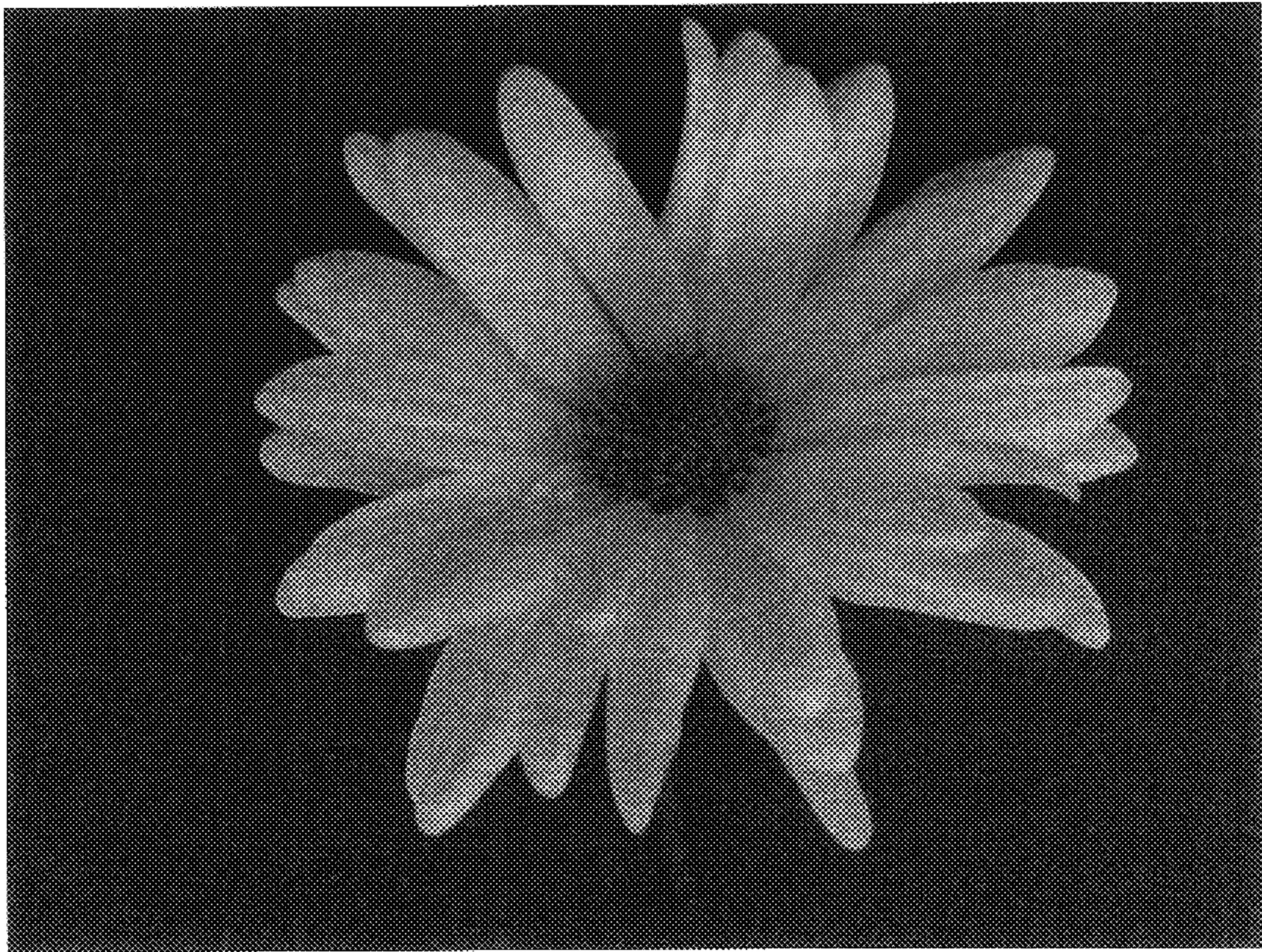


FIGURE 2