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May

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(54) **CHRYSANTHEMUM PLANT NAMED
‘JMay01’**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.** **Plt./287**

(58) **Field of Search** **Plt./287, 288, 289**

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP4,476 P 11/1979 Petusky Plt./289

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(57) **ABSTRACT**

A new and distinct Chrysanthemum plant cultivar charac-
terized by solitary, decorative flowers having a bright golden
yellow coloration of the inner ray petals, gradually turning
to a white coloration towards the outer ray petals, blooming
consistently after 56 days of a 12/12 daylight/darkness
cycle, having a free branching habit, and a consistent natural
season flowering habit during the fall.

1 Drawing Sheet

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Latin name of the genus and species claimed: *Chrysan-
themum×morifolium*.
Variety denomination: ‘JMay01’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of Chrysanthemum plant, herein after referred to by the
cultivar name ‘JMay01’. The new cultivar is a two tone
natural mutation of the variety ‘Casper’ (unpatented) dis-
covered in a controlled greenhouse environment in San Luis
Obispo, Calif.

Asexual reproduction of the new cultivar by apical tip
cutting and meristem tissue culture was performed in San
Luis Obispo, Calif., and has shown that the unique features
of this new Chrysanthemum cultivar are stable and repro-
duce true to type on successive generations.

SUMMARY OF THE INVENTION

The cultivar ‘JMay01’ has not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as
temperature, daylength, and light intensity, without,
however, any variance in genotype.

The following traits have been repeatedly observed and
are determined to be the unique characteristics of ‘JMay01’.
The new cultivar ‘JMay01’ naturally blooms in the fall
season. The 10–12 cm solitary, decorative inflorescences
have bright golden yellow inner ray petals of about 4.6 cm,
which radiate out to light, almost white outer ray florets.
Floral bloom occurs after about 56 days of a 12 hour light/12
hour darkness cycle. The color of the petals change as the
flower ages: the outer ray florets fade to white with age,
while the inner petals fade to a golden yellow with age. No
seeds are produced. The plant is perennial, herbaceous, and
has excellent disease resistance characteristics. The new
cultivar ‘JMay01’ has a free branching semi-upright habit,
growing to about 25–35 cm as a disbud pot mum. The
fragrance of the herbage is strong and pungent, while the
inflorescence has little to no fragrance. The mature leaves

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are about 8–10 cm in length by 6–8 cm in width, and have
a lanceolate shape with an acute apex.

The new cultivar ‘JMay01’ can be distinguished as a new
and distinct Chrysanthemum cultivar by its bright golden
yellow coloration of inner ray floret radiating out to white
outer ray floret.

Plants of the new cultivar are similar to plants of the
parent cultivar, ‘Casper’ in most horticultural characteristics,
differing from the parent cultivar ‘Casper’ primarily in
bloom characteristics. Plants of the new cultivar can be
distinguished from its parent cultivar ‘Casper’ by the bright
golden yellow coloration of its inner ray florets and white
coloration of its outer ray florets. The parent cultivar
‘Casper’, in contrast, has pale yellow inner ray florets.

Plants of the new cultivar are similar to the cultivar
‘Sunburst Spirit’ (U.S. Plant Pat. No. 4,476). The new
cultivar can be distinguished from the cultivar ‘Sunburst
Spirit’ by having a bright golden yellow coloration of its
inner ray florets, as compared to the light yellow coloring of
the inner ray florets of the ‘Sunburst Spirit’ cultivar.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The photograph shows a plant of the new cultivar which
was grown in a 6½-inch container. Five cuttings were grown
in the container, and the plant was grown under greenhouse
conditions.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to
The Royal Horticultural Society Colour Chart except where
general terms of ordinary dictionary significance are used.
The following observations and measurements describe 10
week old plants grown in a greenhouse in San Luis Obispo,
Calif., in the month of September 2000. The growing
conditions range from 60° to 65° F. at night to 70° to 85° F.
during the day. Measurements and numerical values repre-
sent averages of typical flowering types.
Botanical classification: *Dendranthema grandiflora* cultivar
‘JMay01’.

Commercial classification: Florist Chrysanthemum.
Parentage: Natural mutation of the variety 'Casper' discovered in a controlled greenhouse environment.

PROPAGATION

Time to rooting: 3 to 5 days.
Rooting habit: Basal swelling, callusing, and profuse root production just above base of cutting.

PLANT

Growth habit: Semi-upright.
Plant spread: Approximately 15 inches.
Height: 25–35 cm as a disbud pot mum with 0–7 long days after pinch, but prior to short days and 2 applications of 2500 ppm B-9 sp.
Growth rate: 2–3 cm per week after pinch.
Branching characteristics: Free branching.

FOLIAGE

Leaf:
Arrangement.—Alternate.
Average length.—Approximately 8–10 cm.
Average width.—Approximately 6–8 cm.
Shape of blade.—Lanceolate.
Apex.—Acute.
Base.—Attenuate.
Attachment.—Attenuate to stem.
Margin.—Moderately to deeply lobed and slightly serrate.
Texture of top surface.—Canescent.
Texture of bottom surface.—Pubescent.
Color.—Young foliage upper side: Near yellow-green 147A. Young foliage under side: Near green 137B. Mature foliage upper side: Near green 139A. Mature foliage under side: Near green 137B. Venation upper side: Near green 138C. venation under side: Near green 138B.
Petiole:
Average length.—Attenuate to stem — no pronounced petiole.

BLOOM

Inflorescence:
Flowering habit.—Requires about 12 hours light/12 hours darkness for approximately 56 days to induce and develop blooms.
Inflorescence form.—Solitary.
Bloom type.—Quilled.
Natural flowering season.—Fall.
Number of inflorescences per stem.—One.
Inflorescence diameter.—About 10–12 cm.
Inflorescence depth.—About 2–3 cm.
Inflorescence longevity on plant.—Approximately 21–28 days.
Persistence.—Persistent.
Ray florets:
Appearance.—Matte.
Texture.—Glabrous.
Average number per flower.—Approximately 150–200.
Shape.—Oblanceolate.
Margin.—Entire.
Tip/apex.—Obtuse to retuse.
Base.—Tapered.
Aspect.—Straight.

Length.—Approximately 4.6 cm.
Width.—Approximately 1.0 cm.
Color.—Upper surface at first opening: Inner ray florets: Near yellow 9B. Outer ray florets: Near white 155A to near yellow 4D. Upper surface at maturity: Inner ray florets: Near yellow 8B. Outer ray florets: Near white 155A to near yellow 4D. Upper surface at fading: Inner ray florets: Near yellow 4C. Outer ray florets: Near white 155A to near yellow 4D. Under surface at first opening: Inner ray florets: Near yellow 9B. Outer ray florets: Near white 155A to near yellow 4D. Under surface at maturity: Inner ray florets: Near yellow 8B. Outer ray florets: Near white 155A to near yellow 4D. Under surface at fading: Inner ray florets: Near yellow 4C. Outer ray florets: Near white 155A to near yellow 4D.

Disc florets:

Number per flower.—Approximately 10–12.
Color.—Near Yellow 9B.
Length.—Approximately 10–12 mm.
Width.—Approximately 2 mm.
Apex.—Slightly dentate.

Peduncle:

Length.—Approximately 0.8–1.2 cm.
Strength.—Strong.
Color.—Near green 138C.
Habit.—Erect.
Surface.—Pubescent.

Inflorescence bud:

Length.—Approximately 0.8–1.0 cm.
Diameter.—Approximately 1.2–1.4 cm.
Form.—Globular.
Color.—Near green 141B.

Phyllaries:

Length.—Approximately 10–12 mm.
Width.—Approximately 3–5 mm.
Appearance.—Matte.
Texture.—Pubescent.
Number.—Numerous — first set of phyllaries, then a single layer of ray florets followed by a second layer of several phyllaries thick, followed by inner petals.
Shape.—Ovate.
Margin.—Entire.
Apex.—Acute.
Color.—Upper side: Near green 131A. Under side: Near green 139A.

REPRODUCTIVE ORGANS

Reproductive organs of the ray florets:

Number of pistils per flower.—1.
Stigma shape.—Linear.
Stigma color.—Near yellow-orange 17A.
Style color.—Near yellow-orange 17A.
Style length.—About 3–5 mm.
Stamens.—Absent.

Reproductive organs of the disc florets:

Number of pistils per flower.—1.
Stigma shape.—Linear.
Style length.—3–5 mm.
Number of stamens per flower.—5.
Anther shape.—Syngenesious.
Anther color.—Near yellow 8A at top, fading to near yellow 8D at base.
Pollen color.—Near yellow-orange 17A.
Pollen quantity.—Low.

OTHER CHARACTERISTICS

Seed production: None.
Disease resistance: Neither resistance nor susceptibility to diseases and pests has been observed in this cultivar to date.
Plant hardiness: This cultivar has been grown under controlled conditions in a greenhouse. Therefore, neither cold

resistance nor heat resistance has been observed in this cultivar to date.

What is claimed is:

1. A new and distinct cultivar of Chrysanthemum plant named ‘JMay01’ as herein illustrated and described.

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