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

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

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(US)

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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.: **09/594,757**

(22) Filed: **Jun. 16, 2000**

(51) **Int. Cl.⁷** **A01H 5/00**

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

(58) **Field of Search** **Plt./287, 291, 292**

(56) **References Cited**
PUBLICATIONS

UPOV-ROM, 2001/03, Plant Variety Database, GTI Jouve
Retrieval Software, citation for ‘Yoelmira’.*
* cited by examiner

Primary Examiner—Howard J. Locker
(74) *Attorney, Agent, or Firm*—C. A. Whealy

(57) **ABSTRACT**

A distinct cultivar of Chrysanthemum plant named
‘Yoelmira’, characterized by its compact, upright, somewhat
outwardly spreading and uniformly mounded plant habit;
excellent plant strength; small, durable, glossy, dark green
leaves; very freely branching habit; uniform flowering
response; early flowering, eight-week response time; florif-
erousness; small decorative-type inflorescences that are
about 2.9 cm in diameter; light lavender-colored ray florets
with white bases; and good postproduction longevity with
inflorescences maintaining good substance and color for
about three weeks in an interior environment.

1 Drawing Sheet

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BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct culti-
var of Chrysanthemum plant, botanically known as *Den-*
dranthea grandiflora and hereinafter referred to by the
cultivar name Yoelmira.

The new Chrysanthemum is a product of a mutation
induction breeding program conducted by the Inventor in
Fort Myers, Fla. The objective of the program is to create
new Chrysanthemum cultivars with desirable inflorescence
form and floret colors and good postproduction longevity.

The new Chrysanthemum originated by exposing
unrooted cuttings of a proprietary seedling selection identi-
fied as YB-5908, to X-ray radiation in July, 1997, in Fort
Myers, Fla. Following the radiation treatment, the cuttings
were rooted and terminal apices were removed (pinched)
three times to promote lateral branch development. After
lateral branches from the third pinch reached sufficient size,
terminal cuttings were harvested, planted and flowered in a
controlled environment in Fort Myers, Fla. The new Chry-
santhemum was discovered and selected by the Inventor as
a single flowering plant within this population in March,
1998. The selection of this plant was based on its desirable
inflorescence form and ray floret color.

Asexual reproduction of the new Chrysanthemum by
vegetative tip cuttings was first conducted in Fort Myers,
Fla. in May, 1998. Asexual reproduction by cuttings has
shown that the unique features of this new Chrysanthemum
are stable and reproduced true to type in successive genera-
tions.

SUMMARY OF THE INVENTION

The cultivar Yoelmira has not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as

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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 ‘Yoelm-
ira’. These characteristics in combination distinguish
‘Yoelmira’ as a new and distinct Chrysanthemum:

1. Compact, upright, somewhat outwardly spreading and
uniformly mounded plant habit.
2. Small, durable, glossy, dark green leaves.
3. Very freely branching, dense and full plants.
4. Excellent plant strength.
5. Uniform flowering response.
6. Early flowering, eight-week response time.
7. Very freely flowering.
8. Small decorative-type inflorescences that are about 2.9
cm in diameter.
9. Light lavender-colored ray florets with white bases.
10. Can be grown as a natural spray-type.
11. Good postproduction longevity with inflorescences
maintaining good substance and color for about three
weeks in an interior environment.

Plants of the new Chrysanthemum differ from the parent
selection and the Chrysanthemum cultivars Frosted Yoelm-
ira (U.S. Plant patent application Ser. No. 09/594,758) and
Yellow Yoelmira (U.S. Plant patent application Ser. No.
09/594,759) (both filed concurrently with this application)
primarily in ray floret color.

Plants of the new Chrysanthemum differ from plants of
the Chrysanthemum cultivar Charm, disclosed in U.S. Plant
Pat. No. 5,502, in the following characteristics:

1. Plants of the new Chrysanthemum are more freely
branching than plants of the cultivar Charm.
2. Plants of the new Chrysanthemum have smaller leaves
and inflorescences than plants of the cultivar Charm.

3. Plants of the new Chrysanthemum are more floriferous than plants of the cultivar Charm.
4. Ray floret color of the new Chrysanthemum is light lavender with white at the base whereas ray floret color of plants of the cultivar Charm is solid medium lavender.
5. Plants of the cultivar Charm tend to form double terminal inflorescences whereas plants of the new Chrysanthemum do not tend to form double terminal inflorescences.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new Chrysanthemum showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ from the color values cited in the detailed botanical description which more accurately describe the actual colors of the new Chrysanthemum.

The photograph at the top of the sheet comprises a top perspective view of a typical flowering plant of 'Yoelmira'.

The photograph at the bottom of the sheet comprises a close-up view of typical inflorescences of the cultivar Yoelmira.

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 plants grown and flowered during the Spring in Salinas, Calif. and Leamington, Ontario, Canada, under greenhouse conditions which approximate those generally used in commercial potted Chrysanthemum production. Four unrooted cuttings were directly stuck in a 15-cm container and pinched once. Plants used for this description were grown as spray-types. Measurements and numerical values represent averages of typical flowering plants.

Botanical classification: *Dendranthema grandiflora* cultivar Yoelmira.

Commercial classification: Decorative-type potted Chrysanthemum.

Parentage: Induced mutation of proprietary Chrysanthemum seedling selection identified as YB-5908.

Propagation:

Type.—Terminal tip cuttings.

Time to rooting.—Seven to ten days with soil temperatures of 21° C.

Rooting habit.—Fine, fibrous and well-branched.

Plant description:

Appearance.—Herbaceous decorative-type potted Chrysanthemum which can be grown as a natural spray-type. Compact; inverted triangle; stems mostly upright and somewhat outwardly spreading giving a uniformly mounded appearance to the plant. Very freely branching, about five lateral branches develop after removal of terminal apex (pinching); dense and full plants. Moderately vigorous.

Plant height.—About 21 cm.

Plant width.—About 30 cm.

Lateral branches.—Length: About 16 cm. Diameter: About 4 mm. Internode length: About 1.4 cm. Strength: Very strong, flexible. Texture: Pubescent. Color: 144A.

Foliage description.—Arrangement: Alternate. Length: About 5.1 cm. Width: About 3.7 cm. Apex: Cuspidate to mucronate. Base: Attenuate to truncate. Margin: Plamately lobed, sinuses between lateral lobes mostly divergent, however, occasionally overlapping. Texture: Upper and lower surfaces with very fine pubescence; veins prominent on lower surface. Color: Young foliage upper surface: Darker than 147A; slightly glossy. Young foliage lower surface: 147B. Mature foliage upper surface: Slightly darker than 147A; glossy. Mature foliage lower surface: 147B. Venation upper surface: 147A to 147B. Venation lower surface: 147B. Petiole length: About 2.2 cm. Petiole diameter: About 2 mm. Petiole color: 147A to 147B. Durability of foliage to stress: Very good; strong and durable plants.

Inflorescence description:

Appearance.—Decorative-type inflorescence form with elongated oblong-shape ray florets. Inflorescence borne on terminals above foliage. Disk and ray florets arranged acropetally on a capitulum. Not fragrant.

Flowering response.—Under natural conditions, plants flower in the autumn/winter in the Northern Hemisphere. At other times of the year, inflorescence initiation and development can be induced under short day/long night conditions (at least 13.5 hours of darkness). Plants exposed to three weeks of long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about eight weeks later; early flowering.

Postproduction longevity.—Inflorescences maintain good color and substance for about three weeks in an interior environment.

Quantity of inflorescences.—Typically grown as a spray-type; very freely flowering with about eight inflorescences per lateral stem, about 40 inflorescences per plant.

Inflorescence bud.—Height: About 5 mm. Diameter: About 6 mm. Color: Darker than 143A.

Inflorescence size.—Diameter: About 2.9 cm. Depth (height): About 1.75 cm. Diameter of disc: About 5 mm. Receptacle diameter: About 3 mm.

Ray florets.—Shape: Elongated-oblong. Orientation: Mostly upright, about 50° from perpendicular to peduncle. Aspect: Straight and flat. Length: About 1.7 cm. Width: About 6.5 mm. Apex: Emarginate, mammilate or dentate. Base: Attenuate; short to medium corolla tube. Margin: Entire. Texture: Smooth, glabrous, satiny. Number of ray florets per inflorescence: About 81; about 6 or 7 rows. Color: When opening, upper surface: Longitudinal purple, 77A, streaks, most prominent towards apex; base, white, 155D. When opening, lower surface: Longitudinal purple, 77A, streaks, most prominent towards apex; base, white, 155D. Fully opened, upper surface: White, 155D, overlain with purple, 77A to 72A and 72B to 70A, longitudinal streaks, most prominent towards apex; base, white, 155D. Overall tonality, light lavender. With development, streaks become fainter. Fully opened, lower surface: White, 155D, heavily overlain with purple, 77A, longitudinal streaks.

Disc florets.—Shape: Tubular, elongated. Apex: Five-pointed. Length: About 6 mm. Width: Apex, about 1.5 mm; base, about 1 mm. Number of disc florets per inflorescence: Less than 20. Color: Immature:

144A. Mature: Apex: 5A to 7A. Mid-section and base: White, 155D.

Peduncles.—Length: First peduncle: About 2.5 cm. Fourth peduncle: About 4.4 cm. Seventh peduncle: About 4.75 cm. Diameter: About 1.5 mm. Angle to vertical: About 45° from vertical. Strength: Strong, wiry, flexible. Color: 144A.

Reproductive organs.—Androecium: Present on disc florets only. Anther color: 9A. Pollen amount: Scarce. Pollen color: 12A. Gynoecium: Present on both ray and disc florets.

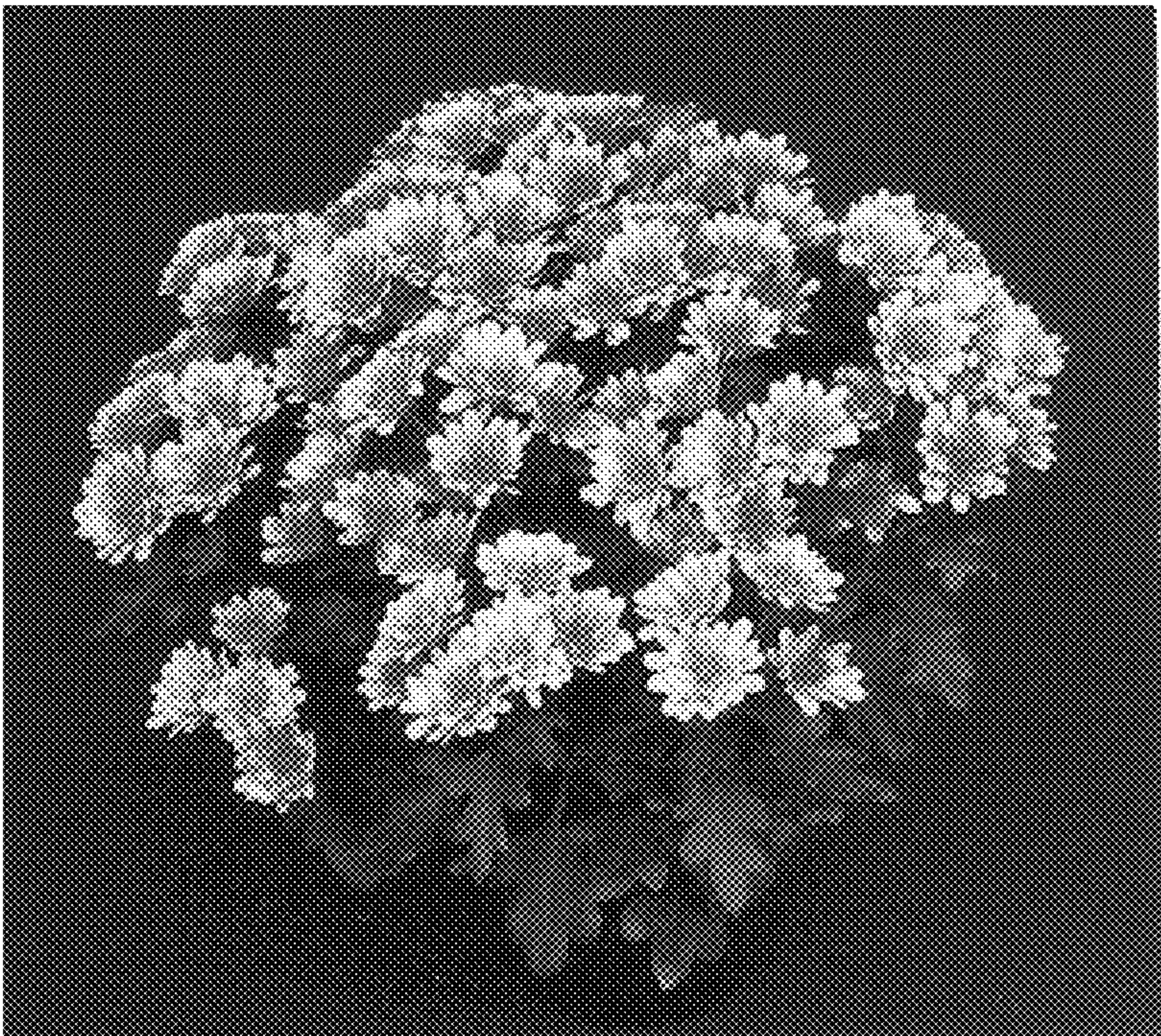
Disease resistance: Resistance to pathogens common to Chrysanthemums has not been observed on plants grown under commercial greenhouse conditions.

Seed production: Seed production has not been observed.

It is claimed:

1. A new and distinct cultivar of Chrysanthemum plants named ‘Yoelmira’, as illustrated and described.

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : PP 12,514 P2
DATED : April 2, 2002
INVENTOR(S) : Bergman

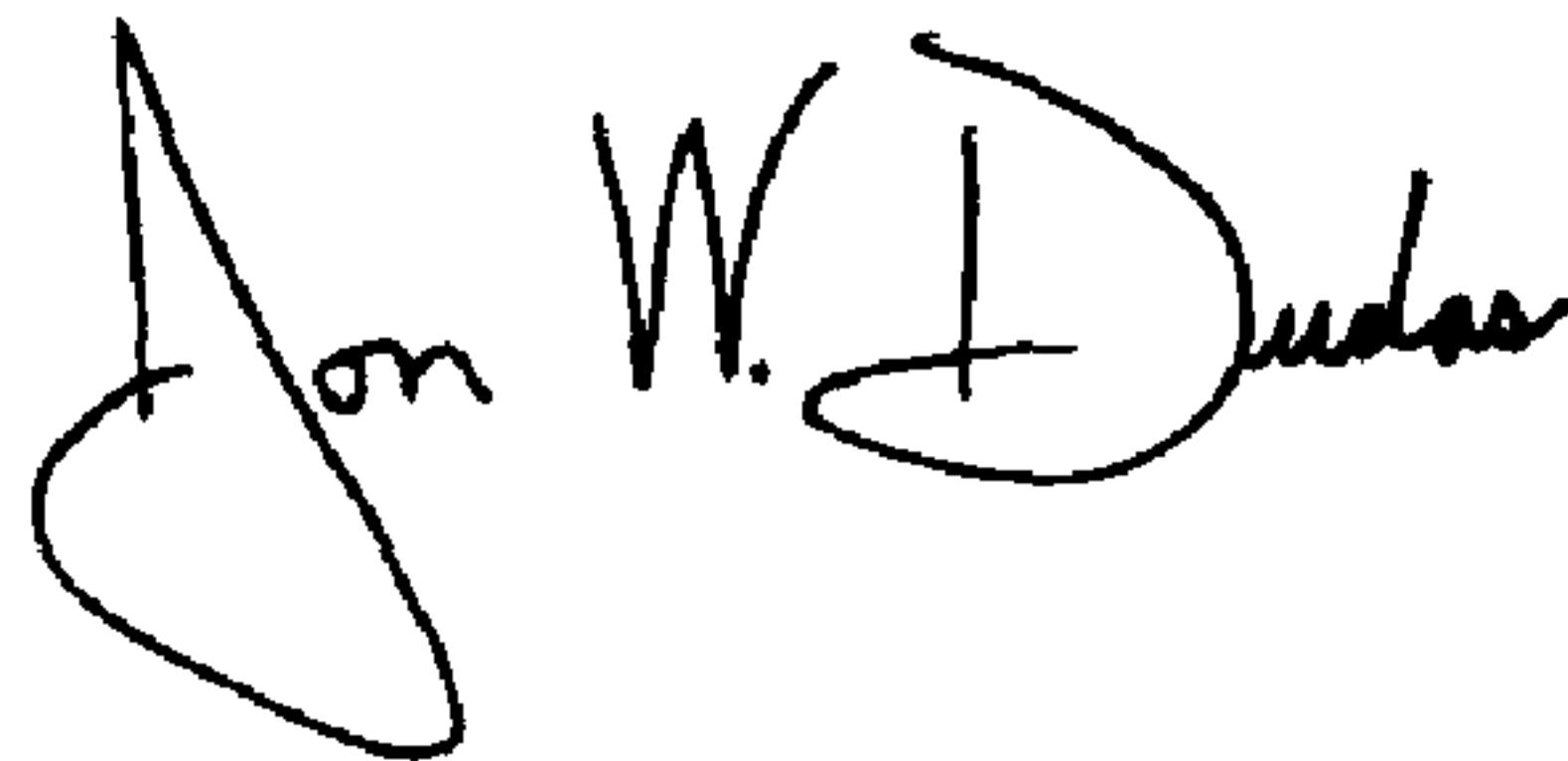
Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page,
Item [*] Notice, delete the phrase "by 0 days" and insert -- by 15 days --

Signed and Sealed this

Twenty-first Day of September, 2004

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office