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Hoek

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(54) **CHRYSANTHEMUM PLANT NAMED**
'ANASTASIA BRONZE'

(50) Latin Name: *Chrysanthemum*×*morifolium*
Varietal Denomination: **Anastasia Bronze**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
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(21) Appl. No.: **10/849,389**

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(51) **Int. Cl.⁷** **A01H 5/00**

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

(58) **Field of Search** Plt./287, 290, 296

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(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named
'Anastasia Bronze', characterized by its large quilled spider
double-type inflorescences with bronze-colored ray florets;
numerous ray florets and few inconspicuous disc florets;
dark green-colored foliage; strong and upright flowering
stems; low number of lateral branches; short response time;
and excellent postproduction longevity.

3 Drawing Sheets

1

Botanical classification/cultivar designation: *Chrysanthemum*×*morifolium* cultivar Anastasia Bronze.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Chrysanthemum* plant, botanically known as
Chrysanthemum×*morifolium* and referred to by the name
'Anastasia Bronze'.

The new *Chrysanthemum* was discovered and selected by
the Inventor in a controlled environment in 's-Gravenzande,
The Netherlands, as a naturally-occurring whole plant muta-
tion of the *Chrysanthemum* cultivar Anastasia, disclosed in
U.S. Plant Pat. No. 13,550. The new plant was discovered
within a population of plants of the cultivar Anastasia and
was selected on the basis of its unique bronze-colored ray
florets.

Asexual reproduction of the new *Chrysanthemum* by
terminal cuttings in 's-Gravenzande, The Netherlands since
January 2001, has shown that the unique features of this new
Chrysanthemum are stable and reproduced true to type in
successive generations.

BRIEF SUMMARY OF THE INVENTION

The cultivar 'Anastasia Bronze' 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 'Anastasia
Bronze'. These characteristics in combination distinguish
'Anastasia Bronze' as a new and distinct cultivar:

1. Large quilled spider double-type inflorescences with
bronze-colored ray florets; typically grown as a dis-
budded type with a single inflorescence per flowering
stem.
2. Numerous ray florets and very few disc florets; disc
florets typically inconspicuous.
3. Dark green-colored foliage.
4. Strong and upright flowering stems.

2

5. Low number of lateral branches which reduces the
amount of disbudding required.

6. Short response time.

7. Excellent postproduction longevity.

Plants of the new *Chrysanthemum* are most similar to
plants of the parent cultivar Anastasia. In side-by-side com-
parisons conducted by the Inventor in 's-Gravenzande, The
Netherlands, plants of the new *Chrysanthemum* differed
primarily from plants of the cultivar Anastasia in ray floret
coloration as plants of the cultivar Anastasia had white-
colored ray florets.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

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

The photograph on the first sheet comprises a side per-
spective view of a typical flowering stem of 'Anastasia
Bronze'.

The photograph on the second sheet comprises a close-up
view of the upper surfaces of a typical inflorescence and leaf
of 'Anastasia Bronze'.

The photograph on the third sheet comprises a close-up
view of the lower surfaces of a typical inflorescence and leaf
of 'Anastasia Bronze'.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to
The Royal Horticultural Society Colour Chart, 1995 Edition,
except where general terms of ordinary dictionary signifi-
cance are used. The aforementioned photographs and fol-
lowing observations and measurements describe plants
grown in 's-Gravenzande, The Netherlands, under commer-
cial practice in a glass-covered greenhouse. Plants were
initially given long day/short night treatments followed by
short day/long night treatments to induce flower initiation

and development. Average day and night temperatures were 18 and 19° C, respectively. Plants were not pinched and were grown as single-stem disbud types.

Botanical classification: *Chrysanthemum*×*morifolium* cultivar Anastasia Bronze.

Commercial classification: Quilled spider double-type *Chrysanthemum* typically grown as a disbudded cut flower.

Parentage: Naturally-occurring whole plant mutation of *Chrysanthemum*×*morifolium* cultivar Anastasia, disclosed in U.S. Plant Pat. No. 13,550.

Propagation:

Type.—Terminal tip cuttings.

Time to initiate roots, summer.—About 10 days at 20° C.

Time to initiate roots, winter.—About 14 days at 20° C.

Root description.—Fine, fibrous and well-branched.

Plant description:

Appearance.—Herbaceous quilled spider double-type cut *Chrysanthemum*; typically grown as a single-stem and as a disbudded type with one single inflorescence per flowering stem. Upright and strong flowering stems.

Growth rate.—Moderate; moderately vigorous.

Crop time.—For cut flowers, about 78 and 117 days are required to produce flowering stems during the summer and winter, respectively.

Flowering stem description.—Length: About 70 to 80 cm. Diameter, at apex: About 6.5 mm. Strength: Strong. Aspect: Upright. Branching habit: Plants are typically grown as single stems, but if pinched, will develop 8 to 12 lateral stems. Color: 146B.

Foliage description.—Arrangement: Alternate. Quantity of leaves per main stem: About 12 to 15. Length: About 10 to 13 cm. Width: About 6 to 9 cm. Apex: Acute. Base: Acute to obtuse. Margin: Palmately lobed. Texture, upper and lower surfaces: Rough; pubescent. Petiole length: About 3 to 4 cm. Color: Developing and fully expanded foliage, upper surface: 147A. Developing and fully expanded foliage, lower surface: 147B. Venation, upper and lower surfaces: 147B. Petiole: 147B.

Inflorescence description:

Appearance.—Quilled spider double-type inflorescence form. Inflorescences borne on terminals, arising from leaf axils. Ray and disc florets develop acropetally on the receptacle.

Flowering response.—Under natural conditions, plant typically flower in November 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 hours of

darkness). Plants exposed to long day/short night conditions after planting followed by photoinductive short day/long night conditions flower about seven weeks later.

Postproduction longevity.—Inflorescences will maintain good substance and form for about 3.5 weeks after harvesting.

Quantity of inflorescences per flowering stem.—Grown as a disbud type, all lateral inflorescences are removed and only the terminal inflorescence develops. If lateral inflorescences are not removed, about 8 to 11 inflorescences per flowering stem will develop.

Inflorescence size.—Diameter: Large, about 11 to 14 cm. Depth (height): About 4 to 5 cm. Diameter of disc: About 1.4 cm; inconspicuous.

Inflorescence buds.—Length: About 1 to 1.5 cm. Diameter: About 1.2 to 1.5 cm. Shape: Oblate. Color: Close to 146A.

Ray florets.—Length, fully developed: About 6.5 to 7.5 cm. Width, fully developed: About 7 to 8 mm. Shape: Fused, tubular; quilled. Texture, inner and outer surfaces: Smooth, glabrous. Number of ray florets per inflorescence: About 350. Color: When opening, upper and lower surfaces: 164C to 164D. Fully opened, upper and lower surfaces: 164B to 164C; color becoming closer to 164C to 164D with 162C towards the base with development.

Disc florets.—Shape: Oblong, tubular. Length: About 5 mm. Width: About 1 mm. Number of disc florets per inflorescence: Few, about 10; inconspicuous. Color: Immature: Close to 154D. Mature: Towards apex, 13A; towards base, close to 150D.

Peduncles.—Length, terminal peduncle: About 3 to 4 cm. Length, fourth peduncle: About 4 to 5 cm. Diameter: About 6 to 7 mm. Texture: Pubescent. Color: 146B.

Reproductive organs.—Androecium: Present on disc florets only. Anther color: 15B. Amount of pollen: Moderate. Pollen: 16B. Gynoecium: Present on both ray and disc florets. Stigma length: About 5 mm. Stigma width: About 0.5 mm. Stigma color: Towards apex, 9C; towards the base, close to 155C.

Seed/fruit.—Seed and fruit production has not been observed.

Disease/pest resistance: Resistance to known *Chrysanthemum* pathogens and pests has not been observed on plants of the new *Chrysanthemum*.

It is claimed:

1. A new and distinct cultivar of *Chrysanthemum* plant named 'Anastasia Bronze', as illustrated and described.

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