

[54] CHRYSANTHEMUM PLANT NAMED  
BRONZE COMET

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[52] U.S. Cl. .... Plt./79

[58] Field of Search ..... Plt./74, 76, 79;  
800/200; 47/58

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U.S. PATENT DOCUMENTS

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[57] ABSTRACT

A Chrysanthemum plant named Bronze Comet particu-  
larly characterized by its flat to V-shaped capitulum  
form; quilled to spooned decorative capitulum type;  
bronze ray floret color; diameter across face of capitu-  
lum of up to 9 cm at maturity; uniform nine week photo-  
periodic flowering response to short days; medium  
plant height when grown as a single stem spray cut  
mum; and excellent tolerance to low temperatures for  
bud initiation and flower development.

1 Drawing Sheet

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The present invention comprises a new and distinct  
cultivar of Chrysanthemum, botanically known as *Den-  
dranthera grandiflora*, and referred to by the cultivar  
name Bronze Comet.

Bronze Comet, identified as 81-757B07, is a product  
of a mutation induction program which had the objec-  
tive of creating new Chrysanthemum cultivars that  
would expand the color range of an existing cultivar  
while retaining all other traits.

Bronze Comet was discovered and selected by  
Cornelis P. VandenBerg on Sept. 18, 1985 in a con-  
trolled environment in Salinas, Calif. as one flowering  
plant within a flowering block established as rooted  
cuttings from stock plants which had been exposed as  
unrooted cuttings to an X-ray source of 1500 rads. The  
irradiated parent was the cultivar identified as Comet,  
disclosed in U.S. Plant Pat. No. 5,809.

The first act of asexual reproduction of Bronze  
Comet was accomplished when vegetative cuttings  
were taken from the initial selection in November 1985  
in a controlled environment in Salinas, Calif., by techni-  
cians working under formulations established and su-  
pervised by Cornelis P. VandenBerg.

Horticultural examination of controlled flowerings of  
successive plantings has shown that the unique combi-  
nation of characteristics as herein disclosed for Bronze  
Comet are firmly fixed and are retained through succes-  
sive generations of asexual reproduction.

Bronze Comet has not been observed under all possi-  
ble environmental conditions. The phenotype may vary  
significantly with variations in environment such as  
temperature, light intensity and daylength.

The following observations, measurements and com-  
parisons describe plants grown in Salinas, Calif. under  
greenhouse conditions which approximate those gener-  
ally used in commercial greenhouse practice. The low  
temperature tolerance of the new variety as noted

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below was determined in repeated flowerings in Bo-  
gota, Colombia.

The following traits have been repeatedly observed  
and are determined to be basic characteristics of Bronze  
Comet, which, in combination, distinguish this Chry-  
santhemum as a new and distinct cultivar:

1. Flat to V-shaped capitulum form.
2. Quilled to spooned decorative capitulum type.
3. Bronze ray floret color.
4. Diameter across face of capitulum of up to 9 cm at  
maturity.
5. Uniform nine week photoperiodic flowering re-  
sponse to short days.
6. Peduncle length ranging from 15 to 25 cm on open,  
terminal sprays.
7. Medium plant height, requiring two long day  
weeks prior to short days to attain a flowered plant  
height of 90 to 100 cm for year-round flowerings.
8. Excellent tolerance to low temperatures for bud  
initiation and flower development.

The accompanying photographic drawing shows  
typical inflorescence and leaf characteristics of Bronze  
Comet, with the colors being as nearly true as possible  
with illustrations of this type. The color photograph is  
a perspective view of Bronze Comet grown as a single  
stem cut spray mum.

Of the commercial cultivars known to the inventor,  
the most similar in comparison to Bronze Comet is the  
parent cultivar Comet. All traits of Bronze Comet are  
similar to those of Comet, except the color of the ray  
florets. The color of the ray florets of Bronze Comet is  
bronze, while the color of Comet is described as purple.

In the following description color references are  
made to the Royal Horticultural Society Colour Chart.  
The color values were determined on plant material  
grown as a single stem cut spray mum in Salinas, Calif.  
on July 14, 1989.

Classification:  
Botanical.—*Dendranthema grandiflora* cv Bronze Comet.  
Commercial.—Quilled to spooned decorative cut spray mum.

INFLORESCENCE

- A. Capitulum:  
Form.—Flat to V-shaped.  
Type.—Quilled to spooned decorative.  
Diameter across face.—Up to 9 cm at maturity.
- B. Corolla of ray florets:  
Color (general tonality from a distance of three meters).—Bronze.  
Color (inner surface of tubular rays).—163D heavily overlaid and streaked with 168B to 168C.  
Color (outer surface of tubular rays).—163D slightly streaked with 173D.  
Shape.—Outer rays are quilled, inner rays are spoon-tipped.
- C. Corolla of disc florets:  
Color (mature).—14B.

Color (immature).—Closest to 1A to 1B. Few disc florets. Number of disc florets depending on environmental conditions.  
D. Reproductive organs:  
Androecium.—Present on disc florets only; scant pollen.  
Gynoecium.—Present on both ray and disc florets.

PLANT

- 10 A. General appearance:  
Height.—Medium; 90 to 100 cm as a single stem cut mum with two long day weeks prior to short days.
- B. Foliage:  
Color (upper surface).—137A.  
Color (under surface).—148B.  
Shape.—Deeply lobed and serrated.
- I claim:  
1. A new and distinct Chrysanthemum plant named Bronze Comet, as described and illustrated.

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