

[54] CHRYSANTHEMUM PLANT NAMED
PALOMA

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[57] ABSTRACT

A Chrysanthemum plant named Paloma particularly characterized by its flat capitulum form; decorative capitulum type; clear white ray floret color; diameter across face of capitulum of up to 9 cm at maturity; uniform eight week photoperiodic flowering response to short days; peduncle length ranging from 10 to 20 cm on open, terminal sprays; medium plant height when grown as a single stem spray cut mum; and excellent tolerance to low temperatures for bud initiation and flower development.

3 Drawing Sheets

1.

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

Paloma, identified as 85-263002, was originated from
a cross made by Cornelis P. VandenBerg in a controlled
breeding program in Salinas, Calif., in 1984.

The female parent of Paloma was an unnamed seed-
ling identified as 81-614001, a cut spray mum with white
ray floret color, decorative capitulum type, nine week
photoperiodic flowering response to short days, and
medium height. The male parent of Paloma was an
unnamed seedling, identified as 82-J38047, a cut spray
mum having white ray floret color, decorative duplex
capitulum type, eight week photoperiodic flowering
response to short days, and medium plant height.

Paloma was discovered and selected as one flowering
plant within the progeny of the stated cross by Cornelis
P. VandenBerg in March, 1986, in a controlled environ-
ment in Salinas, Calif.

The first act of asexual reproduction of Paloma was
accomplished when vegetative cuttings were taken
from the initial selection in May, 1986 in a controlled
environment in Salinas, Calif., by technicians working
under formulations established and supervised 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 Paloma
are firmly fixed and are retained through successive
generations of asexual reproduction.

Paloma has not been observed under all possible envi-
ronmental conditions. The phenotype may vary signifi-
cantly with variations in environment such as tempera-
ture, 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 was determined in repeated flow-
erings in Bogota, Colombia.

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

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1. Flat capitulum form.
2. Decorative capitulum type.
3. White ray floret color.
4. Diameter across face of capitulum up to 9 cm at maturity.
5. Uniform eight week photoperiodic flowering response to short days.
6. Peduncle length ranging from 10 to 20 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 drawings show
typical inflorescence and leaf characteristics of Paloma,
with the colors being as nearly true as possible with
illustrations of this type. Sheet 1 is a color photograph
of Paloma grown as a single stem cut spray mum. Sheet
2 is a black and white photograph of three views of the
inflorescence of Paloma. Sheet 3 is a black and white
photograph showing the upper and under sides of the
leaves of Paloma at three stages of development (ma-
ture, intermediate and immature).

Of the commercial cultivars known to the inventor,
the most similar in comparison to Paloma is the unpat-
ented cultivar identified as Polaris. Reference is made to
attached Chart A, which compares certain characteris-
tics of Paloma to the same characteristics of Polaris.

Similar traits are capitulum form and type, spray
formation, peduncle length, plant height and low tem-
perature tolerance. Paloma has a clear white flower
color compared to a creamy white flower color of Po-
laris. Paloma also has a slightly larger flower, and a
faster flowering response by three to four days than
Polaris.

In the following description color references are
made to the Royal Horticultural Society Color Chart.
The clear white ray floret color of Paloma is not repre-
sented in the RHS color chart. The color values were
determined on plant material grown in Salinas, Calif. on
Apr. 26, 1989.

Classification:
Botanical.—*Dendranthema grandiflora* cv Paloma.
Commercial.—Decorative cut spray mum.

Height.—Medium; 90 to 100 cm as a single stem cut mum with two long day weeks prior to short days.

INFLORESCENCE

- A. Capitulum:
Form.—Flat.
Type.—Decorative.
Diameter across face.—Up to 9 cm at maturity.
- B. Corolla of ray florets:
Color (general tonality from a distance of three meters).—Clear white.
Color (upper surface).—Clear white.
Color (under surface).—Clear white.
Shape.—Straight, cross-section flat, apex concave.
- C. Corolla of disc florets:
Color (mature).—Closest to 14A.
Color (immature).—Closest to 145B.
- D. Reproductive organs:
Androecium.—Present on disc florets only; very few disc florets, barely visible in the mature flower; scant pollen.
Gynoecium.—Present on both ray and disc florets.

- B. Foliage:
Color (upper surface).—147A.
Color (under surface).—147B.
Shape.—Lobed, slightly serrated.

CHART A

COMPARISON OF PALOMA AND POLARIS		
	PALOMA	POLARIS
Ray Floret Color	Clear white	Creamy white
Capitulum Form and Type	Flat decorative	Flat decorative
Spray formation	Terminal	Terminal
Peduncle length	10 to 20 cm	10 to 20 cm
Diameter Across Face of Capitulum	Up to 9 cm	Up to 8 cm
Plant Height	Medium	Medium
Flowering response period	8 weeks	9 weeks
Low temperature tolerance	Excellent	Excellent
Comparisons Made of Plants Grown As Single Stem Spray Cut Mums In Salinas, California		

I claim:

1. A new and distinct Chrysanthemum plant named Paloma, as described and illustrated.

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PLANT

- A. General appearance:





