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Wain

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[54] CHRYSANTHEMUM PLANT NAMED  
‘FROSTY TIME’  
[75] Inventor: Peter Wain, Portsmouth, United  
Kingdom  
[73] Assignee: Cleangro, Ltd., West Sussex, England  
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Primary Examiner—Howard J. Locker  
Attorney, Agent, or Firm—Christie, Parker & Hale, LLP

[57] ABSTRACT  
A new plant variety of Chrysanthemum having pure white  
flowers with green centers.

2 Drawing Sheets

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BACKGROUND OF THE INVENTION

The present invention is directed to a new and distinct  
variety of Chrysanthemum botanically classified as *Den-*  
*dranthea grandiflora*. The varietal denomination of the  
new chrysanthemum is ‘Frosty Time.’  
The female and male parents of the new varieties are  
undistributed, unpatented seedlings identified as P17-10 and  
P111-19, respectively. The new variety has been asexually  
reproduced by vegetative cuttings in Ventura County, Calif.  
and the distinguishing characteristics are retained through  
successive generations of asexual reproduction.

SUMMARY OF THE INVENTION

‘Frosty Time’ is a spray type pot forcing chrysanthemum  
plant variety producing pure white flowers on plants capable  
of being grown commercially in a greenhouse.

BRIEF DESCRIPTION OF ILLUSTRATIONS

The accompanying photographs show typical specimens  
of the new variety with colors being as nearly true as  
possible with illustrations of this type. One illustration  
shows ‘Frosty Time’ grown as a pinched pot mum and the  
other illustration is a close-up of the flowers.

DESCRIPTION OF THE PLANT

The following description of the new variety is of speci-  
mens grown in a greenhouse in Oxnard, Ventura County,  
Calif. in the month of October. ‘Frosty Time’ has not been  
observed under all possible environmental conditions. The  
phenotype may vary significantly with variations in the  
environment such as temperature, light intensity, day length  
and cultural conditions. Color values provided in the  
description are from The Royal Horticultural Society Colour  
Charts (R.H.S.C.C.), unless otherwise indicated.  
Plants of the new variety has been grown successfully  
under temperature conditions averaging about 65° F. at night  
and about 75°–85° F. during the day under light conditions  
of about 5,000–6,000 foot candles. The plants respond well  
to use of growth retardant, such as one B-9 treatment at  
about 2000 ppm. To produce a commercial product the  
plants may be pinched once with the center bud removed. It  
has been observed that the shelf life of ‘Frosty Time’ is about  
21 days with the response time of about 8 weeks.

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Plant

Habit: Spreading.  
Height: About 20 cm after one treatment with growth  
retardant as described above.  
Branching characteristics: Strong brancher.  
Number of breaks from pinch: About 3.  
Typical container size to be grown in: 4", 5", 6", 8", 10".  
Length of lateral branches:  
Average.—About 18 cm.  
Stem color: Near 146B.

Foliage

Leaf arrangement: Alternate.  
Number of leaves per lateral Branch: Average leaves per  
lateral branch about 12, very leafy plant, irregular shapes  
and sizes.  
(1) Size: Length — Average about 8.2 cm. Width —  
Average about 4.3 cm.  
(2) Shape: Ovate; some elliptic.  
(3) Attachment: Petioled.  
(4) Apex: Obtuse with serration.  
(5) Base: Tapered.

(6) Color:	Mature	Young
Top:	Near 137A	Near 137A
Bottom:	Near 138B	Near 138B

Margin: Lobed with slight serrations.  
Aspect: Flat, curling under upon aging.  
Surface characteristics: Top-puberulent; Bottom-puberulent.  
Venation: Palmately net, main veins prominent on underside  
of leaf, main vein coloration near 144B, veinlet coloration  
is near 138B.  
Petiole:  
(1) Length.—About 2.6 cm.  
(2) Color.—Near 143c.  
(3) Other characteristics.—Winged.  
Stipule: Not present.

Flower

Inflorescence form: Cymose cluster.  
Flower form: Decorative.  
Flower shape: Irregular circle.  
Flower color (general): Pure white.  
Blooms: About 3 blooms per branch.  
(1) Diameter.—About 11 cm.  
(2) Depth.—About 1.8 cm.

Sepal:

- (1) *Number*.—About 28.
- (2) *Color*.—Near 137C.
- (3) *General appearance*.—Membranous edged, strap shaped.

Peduncle:

- (1) *Length*.—Average about 10.5 cm.
- (2) *Habit*.—Upright, very little curving.
- (3) *Surface*.—Tomentose.
- (4) *Color*.—Near 138B.
- (5) *Strength*.—Very strong.

Bud:

- (1) *Shape*.—Very flat sphere.
- (2) *Diameter*.—Avg. about 1 cm.
- (3) *Color*.—Near 144 A.
- (4) *Height*.—About 0.5 cm.

Ray florets:

- (1) *Number per flower*.—Average about 310.
- (2) *Fused*.—Not fused to each other as a group.
- (3) *Texture*.—Matte.
- (4) *Shape*.—Individual ray florets are tubular at the base and tapered.
- (5) *Apex*.—3 irregular lobes.
- (6) *Base*.—Tapered, fusing near base.
- (7) *Margin*.—Entire.
- (8) *Aspect*.—Rippled, curling under, some undulation.
- (9) *Length*.—Avg. About 5.1 cm.
- (10) *Width*.—Avg. About 1.8 cm. Color — top side: Immature: Near 155 B. Mature: Near 155D. Fading: Near 155D. Color — under side: Immature: Near 155B. Mature: Near 155D. Fading: Near 155D.

Disc florets:

- (1) *Number per flower*.—Average about 22.
- (2) *Texture*.—Glossy.
- (3) *Shape*.—Cylindric.
- (4) *Margin*.—Entire.
- (5) *Length*.—About 0.3 cm.
- (6) *Width*.—About 0.08 cm.
- (7) *Fragrance*.—Almost none.

*Color*.—Immature: Near 154D. Mature: Near 154A, tip near 2C middle. Fading: Near 7A.

Description of flower as it ages:

Tips and centers turn brown. Outer petals drop almost straight down. Center remains tight while outer petals are very loose.

Reproductive Organs

Ray florets:

*Pistillate*.—(1) Pistil number: 1 per flower. (2) Ovary Shape: Egg shaped. (3) Stigma shape: 2-forked, curling out irregularly, rarely 3-forked. (4) Stigma color: Near 15C. (5) Style length: About 0.5 cm. (6) Style color: Near 154C.

Disc florets: Pistillate and staminate.

*Pistillate*.—(1) Pistil number: 1 per flower. (2) Stigma shape: linear. (3) Style length: About 0.2 cm, near 154A.

*Staminate*.—(1) Stamen number: About 5. (2) Anther length: About 0.15 cm. (3) Anther shape: linear, translucent yellow. (4) Pollen quantity: None.

What is claimed is:

1. A new and distinct variety of Chrysanthemum plant substantially as herein shown and described.

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