

May 23, 1972

L. H. SHOESMITH

Plant Pat. 3,192

CHRYSANTHEMUM PLANT (POLAR BEAUTY)

Filed Oct. 5, 1970

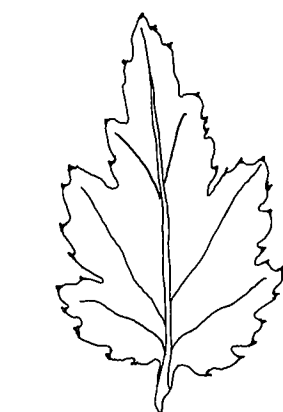
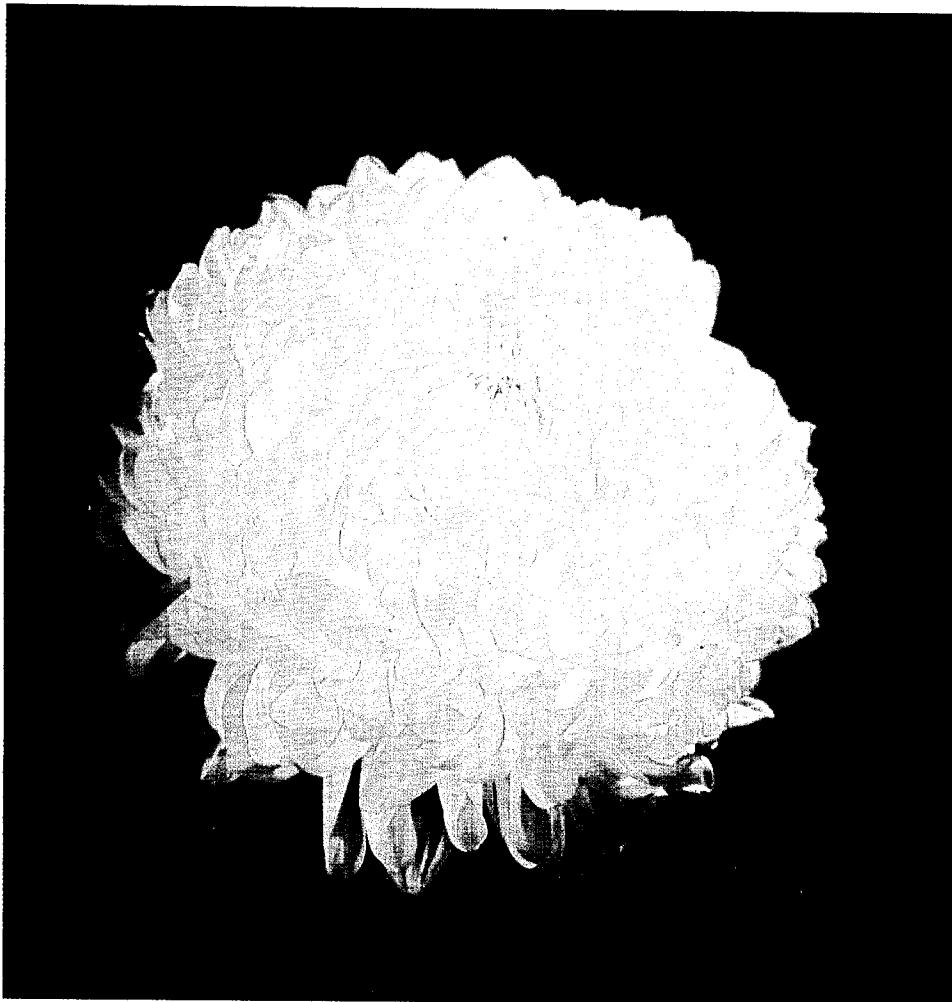


FIG-2

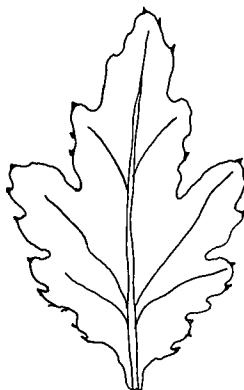


FIG-3

FIG-1

INVENTOR.  
LEONARD H. SHOESMITH

BY *Rummler & Snow*

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3,192  
**CHRYSANTHEMUM PLANT (POLAR BEAUTY)**  
Leonard H. Shoemith, Westfield-Woking, Surrey, Eng-  
land, assignor to Pan-American Plant Company, West  
Chicago, Ill.

Filed Oct. 5, 1970, Ser. No. 78,311

Int. Cl. A01h 5/00

U.S. Cl. Plt.—77

1 Claim

## ABSTRACT OF THE DISCLOSURE

A new variety of chrysanthemum plant of the stand-  
ard semi-incurved type producing very large white blos-  
soms, when disbudded, and being suitable for year-  
around flowering with a ten week response period. The  
plant has a vigorous and strong upright growth habit and  
the blossom is durable and long lasting with a large  
amount of petalage which appears cream color as it  
opens, later turning to pure white.

## BACKGROUND OF THE NEW PLANT

This white chrysanthemum plant was discovered by me  
during extensive breeding activity carried on by me since  
1967 at West Chicago, Ill., with the object of developing  
improved chrysanthemum plants of distinctive form and  
color and commercially advantageous growth habits for  
greenhouse production of cut flowers. This new variety of  
chrysanthemum originated as a seedling product of ran-  
dom crossing of various standard greenhouse plants and  
was selected from many thousands of them, for propaga-  
tion and test, because of the clean white color of its  
blooms and its apparent habit of vigorous and erect  
growth. Asexual propagation by vegetative cuttings, car-  
ried on by me at West Chicago, Ill., has showed the new  
plant to produce a good, long lasting flower of very large  
size on a strong erect stem, when disbudded, as well as  
a ten week response with photoperiod culture and a  
capability of being flowered at any time of the year, par-  
ticularly during summer months. Extensive propagation,  
by means of vegetative cuttings, at West Chicago, Ill.,  
and at Cortez, Fla., has demonstrated that the before-  
mentioned features and advantages come true from gen-  
eration to generation and are firmly fixed.

## DESCRIPTION OF THE DRAWINGS

This new variety of white chrysanthemum plant is illus-  
trated by the accompanying drawing in which the princi-  
pal figure shows the form of the blossom in full color,  
as nearly true as it is reasonably possible to obtain by  
conventional photographic processes, and the ink drawn  
figures show the distinctive configuration of typical leaves  
of the new plant.

## DESCRIPTION OF THE NEW PLANT

The following is a detailed description of my new  
chrysanthemum plant, any color designations by code  
being according to the Horticultural Colour Chart issued  
by the British Colour Council.

### The plant

Origin: Seedling selected from many random crosses.

Parentage: Unknown.

Classification:

*Botanic.*—*Chrysanthemum morifolium*.

*Commercial.*—Standard semi-incurved.

2

Form: Naturally bush—grown as a single stem standard.  
Height: Three feet.

Growth: Vigorous, strong, sturdy, upright and normally  
branching.

5 Foliage: Quantity: semi-abundant, with about 13 leaves  
on a 3 foot stem.

*Leaf size.*—Approximately 4 to 4½ inches long x  
about 2 inches wide.

*Shape.*—Pointed, serrated, lobed lanceolate.

10 *Texture.*—Smooth.

1 *Color.*—Upper side—Spinach Green 0960. Under  
side—Spinach Green 0960/3.

*Ribs and veins.*—Pinnate.

*Petioles.*—About 2 inches long.

### The bud

Form: Round and flat topped—generally globular. Di-  
ameter: ¾ inch; depth: ⅜ inch.

Opening rate: Slowly—3 to 4 weeks.

20 *Color:*

*When sepals first divide.*—Cream shade of White.

*When petals begin to unfurl.*—Cream.

Sepals: Spear-shaped and stand up. Color:

*Inside.*—Scheeles Green 860.

*Outside.*—Scheeles Green 860.

25 *Calyx:*

*Shape.*—Round and flat.

*Aspect.*—Smooth.

Peduncle: Erect, slightly tomentose, 2 inches long. Color:  
Scheeles Green.

### The flower

Blooming period: Natural season flowering in early No-  
vember; photoperiod responsive for year-around flow-  
ering; 10 week response period.

35 *Size:* Very large. Diameter—6 inches; depth—3 inches.  
*Borne:* Singly when disbudded. Naturally racemose.

*Shape:* When bloom first opens—Ovoid, with high center.  
Shape does not change with maturity.

40 *Petalage:* Petals are many in number and in composite  
arrangement.

*Form.*—Ray floret, rounded end with tendency to  
form a mucronate tip.

*Color.*—Outer petal—White. Inside petal—Cream.

*Reverse side.*—White.

*Texture.*—Soft. Appearance—Satiny.

45 *Peduncle:* Sturdy and upright, 3 to 4 inches long. Color:  
Green.

*Persistence:* Petals hang on and dry. Bloom is not affected  
by wet or hot weather and there is no discoloration  
after full bloom.

*Lasting quality:* Bloom is long lasting whether on plant  
or as a cut flower.

### Reproductive organs

55 *Stamens:*

*Anthers.*—Numerous, in disc arrangement, each  
about ⅛ inch long.

*Filaments.*—¼ inch long and Yellow in color.

*Pollen.*—Yellow in color.

60 *Pistils:* One for each ray floret, ¼ inch long.

*Stigmas:* Yellow in color.

*Characteristics of ovaries:* Insignificant.

65 The principal distinctions of my new variety of chry-  
santhemum plant are to be found in the clean white semi-  
incurved flower with its large amount of petalage which  
appears cream colored as the blossom opens and then  
turns to pure white as the bloom reaches the fully opened

3

state; in the durable long-lasting quality of the flower and the strong, sturdy, upright habit of growth; and in the uniform ten week response to photoperiod culture.

I claim:

1. The new and distinct variety of chrysanthemum plant of the standard semi-incurved type, substantially as herein shown and described, characterized by the clean

4

white color of its very large, many petaled blooms, by its vigorous, strong and upright growth, and by its ability to be flowered the year-around with a consistent ten week response to photoperiod culture as a greenhouse plant.

No references cited.

ROBERT E. BAGWILL, Primary Examiner