

[54] CARNATION PLANT

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[57] ABSTRACT

The present invention relates to a new and distinct cultivar of carnation plant named White Melody, which was originated by me by crossing numbered but unnamed and unpatented seedlings, and from irradiation of a seeding derived from this cross.

1 Drawing Figure

1

SUMMARY OF THE DISCLOSURE

The present invention relates to a new and distinct cultivar of Carnation Plant which was originated by me in my commercial nursery at Encinitas, Calif. by cross-breeding numbered but unnamed and unpatented seedlings and irradiation of a seedling derived from this cross.

The primary objectives of this breeding were to produce an improved carnation cultivar having improved disease resistance and production qualities, along with improved flower color, size and form, as well as less tendency of the calyx to burst and cause "splits" as the flowers open fully, which is so typical of the species botanically known as *Dianthus caryophyllus*. These objectives were fully achieved, along with other desirable improvements, as evidenced by the following unique combination of principal characteristics which are outstanding in my new cultivar, White Melody, and which distinguish it from its parents, as well as from all other carnations of which I am aware:

1. A very vigorous and free-breaking plant habit with strong and straight stems;
2. Superior resistance to soil-borne diseases such as *Fusarium oxysporium* and *Fusarium roseum* and other diseases such as damping off, water molds, and the like.
3. Large serrated flowers which open fully without bursting the calyx and causing "splits";
4. A distinctive and attractive white flower color with a very slight green tinge.

Asexual reproduction of my new carnation variety by side shoot cuttings rooted in peat and "Perlite" under mist, as performed under my direction and control at Encinitas, Calif. shows that the foregoing characteristics and distinctions come true and are established and transmitted through succeeding propagations.

DRAWING

The accompanying drawing illustrates typical specimens of the vegetative growth and flowers of my new carnation in different stages of development and is depicted in color as nearly true as it is reasonably possible to make the same in a color illustration of this character.

DETAILED DESCRIPTION

The following is a detailed description of my new carnation cultivar, White Melody, with color terminology in accordance with Robert Ridgway's Color Standards and Nomenclature (1912 edition), except where

2

general color terms of ordinary dictionary significance are obvious.

Plant:

Botanical classification.—*Dianthus caryophyllus*.

Breeding.—Female parent: Numbered but unnamed seedling. Male parent: Numbered but unnamed seedling.

Form.—Erect but free-branching.

Growth.—Strong, heavy growth, stiff stems, and heavy waxy leaves.

Classification.—Greenhouse type, suitable for cut flower production as a standard (one bloom per stem).

Propagation.—Holds its distinguishing characteristics through succeeding propagations by rooted cuttings.

Locality where grown and observed.—Encinitas, Calif.

Disease resistance.—The new cultivar has shown no evidence of fusariums or other root rots, as determined by extensive tests in high infested soils inoculated with as many strains of fungi as are locally available in the area of Encinitas, Calif.; tests conducted without chemical or steam sterilization of the soil. Soils in which the carnation plant "Sim" and others soon die.

Temperature tolerance.—Not hardy to cold, but grows best at temperature above 10° C.; has good resistance to hot weather in summer months of August and September at Encinitas, Calif., without hardening of growth and with only little reduction of flower size and little flower fading; no marked fading of outer flower petals even when bloom is past maturity.

Blooming period.—Blooms under both long and short photoperiods.

Bud: Lobes of calyx overlap in tight bud and seldom split.

Length.—2.2 cm.

Diameter.—2.3 cm.

Color.—White Plate XVIII, 35' green.

Peduncle:

Strength.—Strong.

Color.—Nickel Green, Plate XXXIII, 37" GB-G.

Bloom:

Size.—7.5 to 8.0 cm. diameter, depth 3.0 cm.

Stem.—Consist of 9 nodes: Length is 50 cm. Diameter is 0.75 cm. at base and about 0.3 cm. at base

Plant 5,258

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of calyx. Color is Nickel Green, Plate XXXIII, 37" GB-G.

Petalage.—From 90 to 100 petals. Outer petals are about 3.5 cm. wide and about 4.5 cm. long. Center petals are about 2.5 cm. wide and about 4.5 cm. long.

Color.—The center of flower, outer petals, base of petals, inside of petals and reverse of petals are all white with a very slight green tinge, Plate XVIII, 35' green.

General tonality.—Clear crisp white.

Petals.—Texture is firm. Form: Outer petals nearly semi-circular, with shallow irregular serrations. Serrations: 4 per cm. Opening: Normal with minimum of split calyxes.

Fragrance.—No distinctive fragrance.

Foliage:

Form.—Concave.

Size.—1.2 cm. wide and 13 cm. long.

4

Quantity.—Two leaves per node, with nodes spaced about 8 cm. apart.

Color.—The upper and under sides of both young and mature plants are all Nickel Green, Plate XXXIII, 37" GB-G.

Texture.—Smooth.

I claim:

1. A new and distinct cultivar of carnation plant named White Melody substantially as herein shown and described, characterized particularly as to novelty by the unique combination of a very vigorous and free-breaking plant habit, and strong and straight stems; superior resistance to soil-borne diseases such as *Fusarium oxysporium* and *Fusarium roseum* and other root-roots such as damping off, water molds, and the like; large serrated flowers which open fully without bursting the calyx and causing "splits"; a distinctive and attractive white flower color which fades evenly and beautifully; and good heat tolerance which is superior to that of the parent lines and the so-called "Sim".

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U.S. Patent

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Plant 5,258

