

Feb. 6, 1973

R. E. HAWES

Plant Pat. 3,301

CARNATION PLANT

Filed June 1, 1971



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3,301

CARNATION PLANT

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Int. Cl. A01h 5/00

U.S. Cl. Plt.—70

1 Claim

The present invention comprises a new and distinct cultivar of carnation plant which is a sport of the cultivar known in the United States as Twinkle, which was registered with the American Carnation Society of Philadelphia, Pa., in 1964, by Yoder Brothers, Inc. for Sal Greco. Twinkle is a sport of Chiquita, also registered with the American Carnation Society in 1964.

The new cultivar is similar in many respects to the unpatented but well-known industry standard White Elegance, having the same characteristics of:

- (1) Use and culture as a miniature or spray carnation.
- (2) Perpetual year-round flowering.
- (3) Uniformity of cropping habit.
- (4) Similar cultural requirements.

The new cultivar is distinguished from White Elegance by the following characteristics when grown under comparable conditions:

- (1) More fully petalled flower, with a higher petal count of approximately 30 more per flower.
- (2) The crown of the flower of the new cultivar is higher and fuller with more symmetrically placed petals.
- (3) Flowers never develop hollow centers.
- (4) Seven to fourteen days later response to peak flower date from comparative flowerings planted and pinched on the same date.

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(5) More compact spray formation which becomes less terminal in winter under low light conditions.

(6) Stronger, shorter pedicels supporting flowers.

(7) Higher flower and bud count, averaging 1-2 more flowers and buds per stem.

(8) More ivory flower coloration.

(9) One to two days longer keeping quality under identical conditions.

(10) Under late winter and early spring conditions breaks on return crops clear lateral growth more rapidly and come into flower sooner thereby providing higher annual production per square foot per year on late season plantings.

The new cultivar was discovered in Sudbury, Mass., has been asexually reproduced by cuttings at Salinas, Calif., and has been found to retain its distinctive characteristics through successive propagations.

The following detailed description is based on observations made of the new cultivar in a greenhouse, in Salinas, Calif. The response time, blooming period, total vigor, and color may vary significantly with varying environmental conditions such as temperature, day length, and light intensity.

The accompanying drawing shows the unique characteristics of the new cultivar, the color being as nearly true as possible with color illustrations of this type. In the description which follows, color references are made to the Munsell Color Book, 1963 edition, and comparisons are made with the cultivar White Elegance. Where only a single value or description appears for the new cultivar the same value or description applies also to the comparison cultivar.

Botanical classification: *Dianthus caryophyllus*

	Betsy	White Elegance
Bloom:		
Type	Spray	Spray.
Size (diameter in inches)	2 1/8"	2 1/4"
Average number flowers and lateral buds on spray varieties.	6-7	5.
Petal edge	Lightly serrated	Lightly serrated.
Petal form	Waved or ruffled petal	Flat.
Petal count	Approximately 58	Approximately 27.
Petal texture		Smooth
Petal size:		
Average length		1 7/8-2"
Average width		1"
Bud shape	Ovid, fat; shorter than Elegance	Ovid, narrow.
Splitting tendency		None
Slab tendency		None
Keeping quality	8-9 days	7-8 days.
Fragrance		Mild to none
Color:		
Center of flower		N9.5/white
Base of petals		N G Y/light yellow green
Inside of petals	Faint color blotches of salmon red. Blotch color 5R4/14 on N9.5/white.	Lightly flushed purple blotches, light purple 7.5P6/6 on N9.5/white.
Reverse of petals		N9.5/white
Color stability		Stable
Reproductive organs:		
Stamen, anthers	2.5 Y/tan yellow	7.5P6/6/light purple.
Pollen	2.5 Y8.5/6/tan	7.5P7/2/light purple.
Stigma	2 lobes, N9.5/white	2 lobes, 7.5P6/6, light purple.
Styles		N9.5/white
Length		3/4"
Ovaries		5 G Y/light yellow green
Calyx:		
Size:		
Width	5/8"-6"	5/8"
Length	1"	1 1/8"
Shape	Bell shaped	Narrow bell shaped.
Number of sepals	5	6.
Stems:		
Length—average, from a single pinch one-year crop.	18"	18".
Bending traits	12 o'clock year round	12 o'clock much of year—will weaken and bend to 3 o'clock in low light periods of winter.
Plant:		
Form		Erect and branching bush
Growth		Vigorous, strong, sturdy, and upright
Height—average, from a single pinch one-year crop.		26"-28"

Betsy

White Elegance

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PRODUCTION AND GRADE DATA FROM PLANTINGS FLOWERED IN SALINAS, CALIF.

NOTE.—Grade Data for Miniature or Spray Carnations based on American Carnation Society Standards. Key—7 grade=7+ flowers per stem; 5 grade=5+ flowers per stem; 3 grade=3+ flowers per stem; 1 grade=1+ flowers per stem.

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No references cited.

ROBERT E. BAGWILL, Primary Examiner

UNITED STATES PATENT OFFICE
CERTIFICATE OF CORRECTION

Patent No. PP-3301 Dated February 6, 1973

Inventor(s) RALPH E. HAWES

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Please correct the table as follows:

	Betsy	White Elegance
Bloom:		
Type-----	Spray-----	Spray.
Size (diameter in inches)--	2-1/8"-----	2-1/4".
Average number flowers and lateral buds on spray varieties.	6-7-----	5.
Petal edge-----	Lightly serrated	Lightly serrated.
Petal form-----	Waved or ruffled petal	Flat.
Petal count-----	Approximately 58	Approximately 27.
Petal texture	Smooth	
Petal size:		
Average length-----	1-7/8 - 2"	
Average width-----	1"	
Bud shape-----	Ovid, fat; shorter than Elegance	Ovid, narrow.
Splitting tendency-----	None	
Slab tendency-----	None	
Keeping quality-----	8-9 days	7-8 days.
Fragrance-----	Mild to none	
Color:		
Center of flower-----	N9.5/white	
Base of petals-----	NGY/light yellow green	
Inside of petals-----	Faint color blotches of	Lightly flushed purple blotches.

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Please correct the table as follows: (cont.) 2

	Betsy	White Elegance
	salmon red.	light purple 7.5P6/6
	Blotch color	on N9.5/white.
	5R4/14 on	
	N9.5/white.	
Reverse of petals-----	N9.5/white	
Color stability-----	Stable.	
Reproductive organs:		
Stamen, anthers-----	2.5Y/tan-----	7.5P6/6/light
	yellow	purple.
Pollen-----	2.5Y8.5/6/tan---	7.5P7/2/light
		purple.
Stigma-----	2 lobes-----	2 lobes, 7.5P6/6
	N9.5/white	light purple.
Styles-----	N9.5/white	
Length-----	3/4"	
Ovaries-----	5GY/light yellow green	
Calyx:		
Size:		
Width-----	5/8" - 6/8"-----	5/8".
Length-----	1"-----	1-1/8".
Shape-----	Bell shaped-----	Narrow bell shaped.
Number of sepals-----	5-----	6
Stems:		
Length - average, from a---	18"-----	18"
single pinch one-year crop.		
Bending traits-----	12 o'clock-----	12 o'clock much of
	year round	year - will weaken

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Patent No. PP-3301

Dated February 6, 1973

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Please correct the table as follows: (cont.) 3

	Betsy	White Elegance
		and bend to 3 o'clock in low light periods of winter.

Plant:

Form----- Erect and branching bush
Growth----- Vigorous, strong, sturdy, and upright
Height - average, from a--- 26" - 28"
single pinch one-year crop.

Foliage:

Topside (color)----- 10GY3/4 deep green
Underside (color)----- 10GY5/4 steel green
Immature (color)----- 10GY3/4-----10GY6/4, green.
deep green
Mature (color)----- 10GY3/4-----10GY3/4
deep green deep green.
Length mature leaf----- 5" 4 - 4-1/2"
Shape----- Long, narrow,---Long, narrow.
individual leaves
which curl more
than White
Elegance
Texture----- Glaucous
Displacement----- Opposite

Signed and sealed this 6th day of November 1973.

(SEAL)

Attest:

EDWARD M. FLETCHER, JR.
Attesting Officer

RENE D. TEGTMEYER
Acting Commissioner of Patents