R. E. HAWES

CARNATION PLANT

Filed June 1, 1971



3,301 CARNATION PLANT Ralph E. Hawes, 27 Highland Ave... Sudbury, Mass. 01776 Filed June 1, 1971, Ser. No. 149,089 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 15 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 25 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.
- flower date from comparative flowerings planted and pinched on the same date.

Betsy

- (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, 20 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 (4) Seven to fourteen days later response to peak 30 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

White Elegance

		William Tric Strice
Bloom:		
Type	Spray	Spran
Size (diameter in inches)	Spray	Spray. $2\frac{1}{4}''$ .
Average number flowers and lateral	2½''	
buds on spray varieties.	O 1	
	Lightly correted	Tightly gamestad
Petal form	Lightly serrated Waved or ruffled petal	Lightly serrated. Flat.
Petal count	Approximately 58	
Petal texture	arphroammatery non	Cmosth
Petal size:	•	Smooth
Average length	•	17/ 0//
Average width		17/8-2"
Bud shape	Ovid fat: shorter than Florence	
Splitting tendency	O vid, iac, shorter man integatice.	Ovid, narrow. None
Slab tendency		
Keeping quality	8-9 days	None
Fragrance	o v days	7-8 days.
Color:		Mild to none
Center of flower		NIO E brobito
Base of petals		N9.5/white
Inside of petals	Faint color blotches of salmon red	NGY/light yellow green
man and Language at the appearance and a	color 5R4/14 on N9.5/white.	~ V
Reverse of petals	color offethe on 149.0/winte.	Willie.
Color stability		N9.5/white
Reproductive organs:		Stable
	25V/tan vollow	7 5 Delelliab t manuals
	2.5 Y/tan yellow 2.5 Y 8.5/6/tan	7.5P6/6/light purple.
Styles	2 lobes, N9.5/white	7.5P7/2/light purple.
Styles	2 10000, 140.0/ WIII 00	The same same same and the same and the same same same same same same same sam
Length	•	N9.5/white
Ovaries		74 5 O 37 Bioch t wallows
Calyx:	~-	5GY/light yellow green
Size:		
Width	58"-6"	5.77
Length	1"	$1\frac{5}{8}$
Shape	Rell shaped	Nonvershell change
Number of sepals	5	Narrow ben snaped.
Stems:	V	V.
Length—average, from a single pinch	18"	10//
one-vear crop.		
Bending traits	12 o'clock year round	12 o'clock much of year-will weaken and bend to 3 o'clock in
	ID O CIOCK YEAR TOURIGETEELE	
Plant:	·	low light periods of winter.
Form		Erect and branching buch
Growth		Erect and branching bush
Height-average, from a single pinch		Vigorous, strong, sturdy, and upright 26"-28"
one-year crop.		40 -40
- 0 <b>v</b> r·		

	Betsy	White Elegance
Foliage:     Topside (color)	10 GY 3/4, deep green	10 G Y 3/4, deep green. $4-4\frac{1}{2}$ .  Wes which Long narrow.

The table hereinbelow compares the grade data from three separate plantings of the new cultivar and the comparison cultivar, White Elegance. It will be seen from the grade data that the new cultivar provides a generally 15 higher flower count than White Elegance, under the same growing conditions and treatment. The data also clearly shows the greater production of the new cultivar from late season plantings.

develop hollow centers; a more compact spray formation which becomes less terminal in winter under low light conditions; stronger, shorter pedicels supporting flowers; higher but count, averaging 1–2 more flowers and buds per stem; more ivory flower coloration; one to two days longer keeping quality under identical conditions; breaks on return crops clear lateral growth more rapidly and come into flower sooner under late winter and early spring

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

Variety	Plant	Pinch	1st cut	Peak flower	Prod. per sq. ft.	Crop, weeks	7 građe	5 grade	grade	1 grade	Total
Betsy	6/06	6/26	10/13	11/04	29, 2	48	. 26	42. 4	43, 5	13, 8	99.96
White Elegance	6/06	6/26	10/03	10/24	29, 2	48	. 31	21. 7	58, 04	19, 9	99.95
BetsyWhite Elegance	9/16	10/07	3/23	3/27	38.4	48	3.40	18.7	48. 4	29.5	100.00
	9/16	10/07	3/11	3/20	32.6	48	0	24.1	43. 7	32.2	100.00
Betsy	7/15 7/15	8/12 8/12	$\frac{12/01}{11/25}$	1/10 12/28	17.0 14.9	38 38	0	16.0 9.0	56.0 62.0	28.0 29.0	100.00 100.00

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.

#### I claim:

1. A new and distinct cultivar of carnation characterized particularly as to its uniqueness when compared to the cultivar White Elegance by its more fully petalled flower with a higher petal count of approximately 30 more per flower; a higher and fuller flower crown, with more symmetrically placed petals; flowers which never

-

conditions, thereby providing higher annual production per square foot per year on late season plantings.

No references cited.

ROBERT E. BAGWILL, Primary Examiner

3,

### UNITED STATES PATENT OFFICE CERTIFICATE OF CORRECTION

Patent No.	PP-3301	Dated	February 6,	9/3
Inventor(s)	RALPH E. HAWES			•
THAGHEOT (2)		<del></del>	· · · · · · · · · · · · · · · · · · ·	<del></del>

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		
Average number flowers and lateral buds on spray varieties.		
Petal edge	Lightlyserrated	Lightly serrated.
Petal form	Waved or ruffled petal	·Flat.
Petal count	Approximately	Approximately 27.
Petal texture Petal size:	58 Smooth	
Average lengthAverage width		
	Ovid, fat; shorter than Elegance	Ovid, narrow.
Splitting tendency		
Slab tendency	None	
Keeping quality	8-9 days	7-8 days.
Fragrance	Mild to none	
Center of flower	N9.5/white	
Base of petals	NGY/light yellow	green
Inside of petals	Faint color blotches of	Lightly flushed purple blotches,

# UNITED STATES PATENT OFFICE CERTIFICATE OF CORRECTION

Patent No	PP-3301	Dated_	February	6,	1973	
	ΌΛΙ ΤΟΙΙ ΤΟ ΙΙΛΙ <b>Ι</b> ΤΟΙΟ					
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: (cont.)

Please correct the table	as iollows: (c	ont.) 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	•	
Color stability	Stable.	
Reproductive organs:		
Stamen, anthers	2.5Y/tan	-7.5P6/6/light
	yellow	
Pollen	2.5Y8.5/6/tan	-7.5P7/2/light
		purple.
Stigma		· · · · · · · · · · · · · · · · · · ·
	N9.5/white	light purple.
Styles	•	
Length	<del>-</del> , ·	
Ovaries	5GY/light yellow	w green
Calyx:		
Size:		
Width	•	•
Length		
Shape	Bell shaped	Narrow bell shaped.
Number of sepals	5	-6
Stems:	II	
Length - average, from a		- 18''
single pinch one-year crop.		
Bending traits		<b>\$</b>
	year round	year - will weaken

## UNITED STATES PATENT OFFICE CERTIFICATE OF CORRECTION

Patent No. PP-3301	Dated Februa	ary 6, 1973
Inventor(s) RALPH E. HAWES		
It is certified that error apparent that said Letters Patent are here.  Please correct the table	ereby corrected as	SHOWN DETON.
	Betsy	White Elegance
		and bend to 3 o'clock in low light periods of winter.
Plant:		hina huch
	Erect and branc	
Growth	Vigorous, stron	以 ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
	sturdy, and upr	TRILL
Height - average, from a single pinch one-year crop	. 26'' - 28'' •	
Foliage:	100V3// deen or	-een
Topside (color)	10013/4 GEOP 61	reen
Underside (color)	10013/4 Steer 6	-10GY6/4. green.
Underside (color)	10013/4	
	deep green	-10GY3/4
Mature (color)	deep green	deeb greer.
Length mature leaf	5''	4 - 4 - 1/2
Shape	Long, narrow,	Long, narrow.
	individual leav	ves
	which curl more	e
	than White	
	Elegance	
Texture	Glaucous	
Displacement	Opposite	
Signed and sealed this	5th day of Novem	ber 1973.

(SEAL)
Attest:

EDWARD M.FLETCHER, JR. Attesting Officer

RENE D. TEGTMEYER Acting Commissioner of Patents