No. 7400024

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Quali-Sel, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Red Coach 74A'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* seventh *day of* September *in the year of our Lord one thousand nine hundred and* seventy-six

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

FORM GR-470
(2-12-71)

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSUMER AND MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION RED COACH 74A	2. KIND NAME Lettuce	FOR OFFICIAL USE ONLY PVPO NUMBER 7400024
3. GENUS AND SPECIES NAME Lactuca sativa L.	4. FAMILY NAME *(Botanical)* Compositae 5. DATE OF DETERMINATION January 4, 1972	FILING DATE 10·1·73 TIME 10:00 A.M. FEE RECEIVED $ 250 CHARGES
6. NAME OF APPLICANT(S) QuAli-Sel, Inc. ~~B C SEEDS, INC.~~	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* 1143 Madison Lane Salinas, California 93901	8. TELEPHONE AREA CODE AND NUMBER (408) 422-8500 or 422-6489
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* Corporation	10. STATE OF INCORPORATION California	11. DATE OF INCORPORATION March 1, 1972

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

GEORGE J. NETTER, ESQ.
Kendrick and Subkow
Suite 1260
612 South Flower Street
Los Angeles, California 90017

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [X] 12A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52, P.L. 91-577)*
- [X] 12B. Exhibit B, Botanical Description of the Variety
- [X] 12C. Exhibit C, Objective Description of the Variety
- [X] 12D. Exhibit D, Data Indicative of Novelty
- [X] 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. *(See Section 52, P.L. 91-577).*

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? *(See Section 83(a), P.L. 91-577) (If "Yes," answer 14B and 14C below.)* [ ] YES [X] NO 9/7/76

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [ ] YES [X] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act (P.L. 91-577).

September 11, 1973
(DATE)

(SIGNATURE OF APPLICANT)
Nathan J. Olivas President

(DATE)

(SIGNATURE OF APPLICANT)

00001

RECEIVED OCT 1 '73 DEPARTMENT OF AGRICULTURE

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and $50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All items on the face of the form are self-explanatory unles noted below.

ITEM

5 Insert the date the applicant determined that he had a new variety.

12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.

12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.

12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.

12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

Plant Variety Protection Number: 7400024

RED COACH 74 A

EXHIBIT A

Origin and Breeding History of the Variety

1. RED COACH 74A originated from a hand pollinated cross between Vanguard and Calmar. The cross was made in the Salinas Valley of California in 1970 by B C SEEDS' personnel.

2. Initial trial plantings were conducted in 1971 to allow for individual plant selection work. Several subsequent trial plantings were made following the initial selection process to allow for segregation and more comprehensive evaluations and selections. Selections were made on the basis of size, color, texture and heading capabilities.

3. The procedures involving trial plantings, evaluations and plant selections were repeated numerous times before finally attaining the desirable plant type. These plantings were conducted in Yuma, Arizona and the Salinas, San Joaquin and Imperial Valleys of California.

4. RED COACH 74A is genetically uniform and free of any distinct variations.

P.V.P. No. 7400024

VARIETY: RED COACH 74A

EXHIBIT B: Botanical Description of the Variety

Annual. A crisphead variety with a large sized frame. Wrapper leaves heavily savoyed with intermediate Calmar-Vanguard shade of green color. Color not as dull as Vanguard. Wrapper leaves are broad and thick and are similar to Vanguard in size.

Head is spherical. Butt of plant is usually smooth, core being of large size. Petioles are medium smooth with good color (intermediate Calmar-Vanguard color). For early winter harvest in the Imperial Valley this variety will usually produce a larger head than Calmar. In the same harvest period it will more consistently produce a marketable head than Vanguard.

Seedstalk is extremely uniform in height. Produces a medium sized panicle similar to Calmar and is similar in its yielding characteristics.

It is more bolt tolerant than Vanguard. Seed color is black.

P.V.P. No. 7400024

VARIETY: RED COACH 74A

EXHIBIT D: Data Indicative of Novelty

Red Coach 74A most closely resembles the variety Vanguard. The distinguishing features of Red Coach 74A compared to Vanguard include:

1. It is adapted to earlier mid-winter harvest in the Imperial Valley of California. The normal planting period for Red Coach 74A is October 3 to October 12, while the normal planting period for Vanguard is about October 20 to November 15.

   Red Coach 74A is unique in that it is a Vanguard type that will produce marketable lettuce of optimum size and texture in the early January harvest period of the Imperial Valley.

   Vanguard will produce lettuce that is too large, will lack solidity and at times bolt if planted in the October 3 to October 12 period in the Imperial Valley.

2. It has a slightly larger average frame size. Red Coach 74A is similar to Climax in size while Vanguard is similar to Merit when planted in the Red Coach 74A planting period in the Imperial Valley of California.

3. It has greater bolt tolerance. Seed production time required on Red Coach 74A averages 105 days, while seed production time on Vanguard averages 110 days.

4. It has brighter green color similar to one of its parents - Calmar.

5. It has more desirable texture.

6. Seedstalk height and emergence is much more uniform than the seedstalk height of Vanguard.

VARIETY: RED COACH 74A

EXHIBIT E:

The applicant is the breeder. All rights have been assigned to Quali-Sel, Inc.

FORM GR-471
(4-3-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C

OBJECTIVE DESCRIPTION OF VARIETY
(LETTUCE)

RED COACH 74A

PVP No. 7400024

INSTRUCTIONS: See reverse.

NAME OF APPLICANT(S)
QUALI-SEL, INC. (Formerly B C Seeds, Inc.)

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)
1143 Madison Lane, Salinas, Ca 93901
(P.O. Box 1804, Salinas, Ca 93901)

FOR OFFICIAL USE ONLY
PVPO NUMBER
297 - 1 -
VARIETY NAME OR TEMPORARY DESIGNATION

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. PLANT TYPE: [4][3]
10 = CUTTING (Leaf) 20 = STALK 50 = BUTTERHEAD 60 = LATIN 70 = OTHER (Specify) ____
30 = COS: 31 = SELF-CLOSING GROUP; 32 = LOOSE-CLOSING GROUP
40 = CRISPHEAD: 41 = IMPERIAL GROUP; 42 = GREAT LAKES GROUP; 43 = VANGUARD; 44 = NEW YORK GROUP

2. SEED COLOR: [2] 1 = WHITE 2 = BLACK 3 = YELLOW

3. ANTHOCYANIN: [1] 1 = ABSENT 2 = PRESENT

4. LEAF CONTAINING ANTHOCYANIN: [4] 1 = COVERED 2 = SPOTTED 3 = ALONG MARGIN 4 = ABSENT 5 = OTHER (Specify) ____

5. LEAF SURFACE TEXTURE: [2] 1 = SMOOTH 2 = BLISTERED

6. LEAF SURFACE REFLECTANCE: [3] 1 = DULL 2 = GLOSSY 3 = OTHER (Specify) Between 1 and 2 (medium gloss)

7. LEAF MARGIN: [2] 1 = STRAIGHT 2 = WAVY 3 = CURLED
[1] 1 = ENTIRE 2 = DENTATE 3 = INCISED 4 = DEEPLY INCISED 5 = OTHER (Specify) ____

8. LEAF SHAPE: [1] 1 = ROUNDED 2 = POINTED
[1] 1 = BROADER THAN LONG 2 = LONGER THAN BROAD 3 = OTHER (Specify) ____

9. LEAF COLOR: (See reverse.) [7] 1 = RED 2 = REDDISH-BROWN 3 = YELLOW 4 = YELLOWISH-GREEN 5 = GREYISH-GREEN 6 = BLUE-GREEN 7 = DARK-GREEN 8 = VERY DARK GREEN

10. HEADS: [1] 1 = SPHERICAL 2 = FLATTENED 3 = ELONGATE 4 = POINTED 5 = NON-HEADING

11. PLANT SIZE: (See reverse.) [3] 1 = SMALL 2 = MEDIUM 3 = LARGE

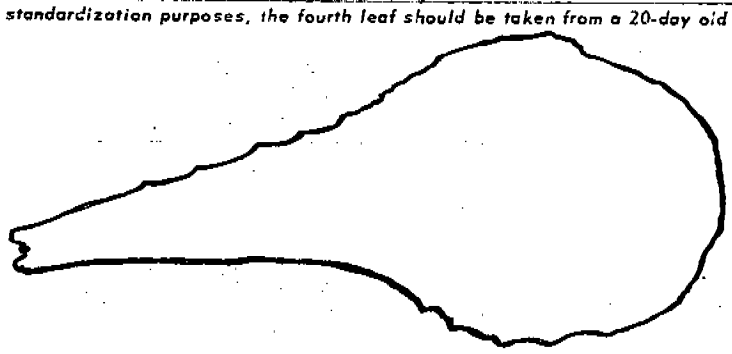
12. CULTURE: [2] 1 = SUMMER CROP 2 = WINTER CROP 3 = NOT SPECIFIC 4 = UNDER GLASS 5 = OTHER (Specify) ____

13. SIZE OF 10-DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C.: (Place a zero in first box (i.e. [0][2]) when size is 9 mm. or less.)
[8][5] mm. LENGTH OF SEEDLING [1][9] mm. LENGTH OF COTYLEDON [0][3] mm. WIDTH OF COTYLEDON

14. DISEASE RESISTANCE TO: (Enter zeroes in box(es) where there is no special disease resistance.)
* [2] 1 = TIPBURN [2] 2 = MOSAIC [1] 3 = DAMPING OFF [1] 4 = DOWNY MILDEW
[2] 5 = SCLEROTINIA ROT [1] 6 = BROWN BLIGHT [2] 7 = BIG VEIN [ ] 8 = OTHER (Specify) ____

* 1-Not Tested
2-Susceptible
3-Resistant

15. OUTLINE THE FOURTH LEAF: (For standardization purposes, the fourth leaf should be taken from a 20-day old plant grown under constant light.)



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4 of 7

FORM GR-471 (REVERSE)

16. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY
Leaf color	Vanguard
Leaf pigmentation	Vanguard
Leaf shape	Vanguard
Plant size	Vanguard
Head size	Vanguard

VARIETY	NO. OF DAYS TO HEAD MATURITY UNDER WINTER CROPPING	LOCATION	NO. OF DAYS TO HEAD MATURITY UNDER SUMMER CROPPING	LOCATION	NO. OF DAYS TO SEED STALK EMERGENCE UNDER SUMMER CROPPING	LOCATION
Submitted	Approximately 99 days	Yuma, Ariz	Approximately 74 days	Salinas, Ca	Approximately 110 days	San Joaquin Valley
Similar	Approximately 96 days	Yuma, Ariz	Approximately 73 days	Salinas, Ca	Approximately 115 days	San Joaquin Valley
Name of similar variety →	CALMAR		CALMAR		CALMAR	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. C. M. Rodenburg, 1960, Varieties of Lettuce, An International Monograph, Institunt Voor de Veredeling van Tuinbouwgewassen, Wageningen, Holland.

2. L. L. Morse, 1930, Field Notes on Lettuce, published by Ferry-Morse Seed Co.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following lettuce varieties may be used as a guide to identify the eight colors listed on the form.

Color	Variety
Red	"Salad Trim"
Reddish-brown	"Ruby"
Yellow	"Salad Bowl"
Yellowish-green	"Oakleaf"
Greyish-green	"White Boston"
Bluish-green	"Bibb"
Dark-green	"Imperial" group
Very dark green	"Deer Tongue"

PLANT SIZE: The following varieties may be used as a guide to identify the plant type size:

TYPE	COMPARABLE VARIETIES		
	SMALL	MEDIUM	LARGE
Cutting (leaf)	Boston-Curled	Prize Head	Grand Rapids
Stalk (stem)	Celtuce	--	--
Cos	Express	Parris Island	Giant White
Crisphead	Mignonette	Hanson (Merit)	Climax
Butterhead	Tom Thumb	Big Boston	Mammoth Butter
Latin	Sucrine	Creole	Deer Tongue