No. 7300008

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Morrison Brothers Seed Company

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.)

PEA

'Small Sieve Alsweet'

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* 9th *day of* May *in the year of our Lord one thousand nine hundred and* seventy-four

Earl L. Butz

Secretary of Agriculture

Attest:

J. D. Rollin

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

SMALL SIEVE ALSWEET

EXHIBIT A

This canning type pea was developed by crossing Small Sieve Alaska Strain M163 with our Alsweet Strain 148. Progeny of this cross were advanced to the F_4 generation where separate selections were made for wrinkled seeded types. Seed produced from these F_4 selections was grown out and observed for doubling character. Only double podded plants were selected from the progeny of the F_3 wrinkled selections. This F_4 material was advanced to the F_8 generation where a bulk selection of wrinkled seeded material was made. This wrinkled seeded material was increased to the F_{10} where single plant selections were made on the basis of doubling, seed size, ovule color for processing, plant size and nodulation ability. This material was then increased to its present quantities. During the past four generations no variants have been observed which we feel is evidence of varietal stability.

EXHIBIT 12B

*(Small Sieve Alsweet) Comparison to (Alsweet or AA15)

Season: *Fifty-Six (56) days to canning, first bloom on 9th node.

Fifty-seven (57) days to canning, first bloom on 9th node.

Vine: *Slender, indeterminate, yellow green 22 to 29 inches tall.
Slender indeterminate, yellow green 25 to 29 inches tall.

Pods: *Light green, straight, blunt and 40% doubles.

Light green, straight, blunt and borne singly.

Berries: *Five to seven (5 to 7) small berries, sieve size range from 1's through 4 sieve at 100 tenderometer.

Five to seven (5 to 7) ; sieve size range from 1's through 5 sieve at 100 tenderometer.

Seed: *Wrinkled, small, blue green 1000 seeds weigh 137 to 149 grams.

Wrinkled small blue green 1000 seeds weigh 150 to 170 grams.

Heat Units: *1150 at 100 tenderometer.

1200 at 100 tenderometer.

*Average sieve sizes at 100 tenderometer Alsweets

1	2	3	4	5
15%	35%	37%	11%	2%

Average sieve sizes at 100 tenderometer Alsweets

1	2	3	4	5
10%	20%	35%	25%	10%

FORM GR-470-14
(10-2-72)

FORM APPROVED. OMB NO. 40-R3712

EXHIBIT C
(Pea)

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

OBJECTIVE DESCRIPTION OF VARIETY

PEA *(PISUM SATIVUM)*

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Morrison Bros. Seed Co.

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
E. 7509 Sprague Avenue
Spokane, WA 99213

FOR OFFICIAL USE ONLY

PVPO NUMBER
73008

VARIETY NAME OR TEMPORARY DESIGNATION
Small Sieve Alsweet

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. TYPE:

[1] 1 = ~~TALL~~ (Internodes straight)
2 = ~~DWARF~~ (Internodes zigzag)

[1] 1 = GARDEN 2 = FIELD 3 = EDIBLE-PODDED

2. SEASON:

[1] Node number of first bloom: 1 = EARLY (8 - 12th node) 2 = MIDSEASON (13 - 24th node) 3 = LATE (Greater than 24th node)

3. MATURITY:

56

[0][7] No. of days *Earlier* than ..... [3]
[0][0] No. of days *Later* than ..... [1]

1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL
4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

4. PLANT HEIGHT:

[0][6][4] CM. HIGH

[1][8] Cm. *Shorter* than ..... [3]
[0][8] Cm. *Taller* than ..... [1]

1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL
4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

5. VINE:

[2] Habit: 1 = DETERMINATE 2 = INDETERMINATE

[1] Stockiness: 1 = SLIM (Alaska) 2 = MEDIUM (Thomas Laxton WR) 3 = HEAVY (Alderman)

[1] Branching: 1 = NONE (Alaska) 2 = 1 - 2 BRANCHES (Little Marvel) 3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar)

[1] Node Color: 1 = GREEN 2 = RED BLOTCH

[0][9] NUMBER OF NODES

[ ][ ] CM. INTERNODE LENGTH (Just below 1st flowering node)

6. LEAFLETS:

[1] Color: 1 = LIGHT GREEN (Alaska WR) 2 = MED. GREEN (Thomas Laxton WR) 3 = DARK GREEN (Alderman) 4 = OTHER (Specify) _____

[3] Wax: 1 = NONE 2 = LIGHT 3 = MEDIUM 4 = HEAVY

[2] Marbling: 1 = NONE 2 = MARBLED (Alaska)

[3] Number of leaflet pairs: 1 = NOT PAIRED 2 = ONE 3 = TWO 4 = THREE OR MORE

7. STIPULES:

[2] 1 = LACKING 2 = PRESENT

[2] 1 = NOT CLASPING 2 = CLASPING

[2] 1 = NOT MARBLED 2 = MARBLED

[2] Size (Compared with leaflets): 1 = SMALLER 2 = SAME 3 = LARGER

[2] Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 = DARKER

8. FLOWER COLOR:

[1] 1 = MONOCOLOR 2 = BICOLOR

[2] Venation [1] Standard [1] Wing [1] Keel

1 = WHITE 2 = GREENISH 3 = LAVENDER 4 = PURPLE
5 = RED 6 = OTHER (Specify) _____

4

EXHIBIT D

Date Indicative of Novelty

Novelty is based on the unique combination of the following characters:

Small Sieve Alsweet is most similar to its one parent, "Alsweet" except it has (1) on the average 2 to 3 inches less vine height, (2) smaller seeded by approximately 300 to 500 seeds per pound, (3) smaller berries at canning stage, (4) produces about 40% double pods whereas its parent Alsweet produces all single pods.

#73008

SMALL SIEVE ALSWEET

EXHIBIT D

Data Indicative of Novelty

Novelty is based on the unique combination of the following characters:

Small Sieve Alsweet is similar to its one parent, "Alsweet" except it has (1) on the average 2 to 3 inches less vine height, (2) smaller seeded by approximately 300 to 500 seeds per pound, (3) smaller berries at canning stage, (4) produces about 40% double pods whereas its parent Alsweet Produces all single pods. Alsweet is, to the best of our knowledge, the variety most similar to Small Sieve Alsweet.

EXHIBIT E

STATEMENT OF APPLICANT'S OWNERSHIP

Morrison Bros. Seed Co. of Spokane Washington is the employer of the breeder of this variety, we also believe that we are the sole original, and first breeder of the Small Sieve Alsweet, variety of peas for which it solicits a certificate of protection.

9. PODS:

[1] Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED

[2] End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)

[1] Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman) 4 = OTHER (Specify) _____

[2] Surface: 1 = SMOOTH 2 = ROUGH

[1] 1 = SHINY 2 = DULL

[3] Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPLE 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) _____

[0 7] CM. LENGTH [1 1] MM. WIDTH (Between sutures) [0 6] NUMBER OF SEEDS PER POD

10. SEEDS (95 - 100 Tenderometer):

[1] Color: 1 = LIGHT GREEN (Perfection Canner) 2 = GREEN (Little Marvel) 3 = DARK GREEN (Dark Skin Perfection) 4 = OTHER (Specify) _____

[4] Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED

[3] Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED

[2] Surface: 1 = SHINY 2 = DULL

SEEDS (Mature, Dry):

[2] Color: 1 = MONOCOLOR 2 = BICOLOR

[8] Primary Color:

[5] Secondary Color:

1 = CREAMY-WHITE (Mammoth Melting Sugar) 2 = YELLOW (Arthur) 3 = CREAM & GREEN (Thomas Laxton) 4 = YELLOW 5 = LIGHT GREEN (Alderman) 6 = MEDIUM GREEN (Little Marvel) 7 = DARK GREEN (Dark Skin Perfection) 8 = BLUE-GREEN (Alaska WR) 9 = BROWN 10 = RED 11 = GRAY 12 = BLACK

[2] Color Pattern: 1 = SPLASHED 2 = MOTTLED 3 = STRIPED 4 = FLECKED 5 = DOTTED

[2] Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK

[3] Cotyledon Color: 1 = YELLOW 2 = ORANGE 3 = GREEN

[1 4] GRAMS PER 100 SEED

11. SEED SIEVE SIZE DISTRIBUTION (95 - 100) Tenderometer):

AVE. 2.53

Sieve (%): [1 5]1 [3 5]2 [3 7]3 [1 1]4 [0 2]5 [ ]6 [ ]7 [ ]8

12. PLANT REACTION: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[0] 1 = DROUGHT (Wando) [0] 2 = COLD (Alaska) [0] 3 = HEAT (Wando)

13. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[2] FUSARIUM WILT [0] NEAR-WILT [0] DOWNY MILDEW

[0] ASCOCHYTA BLIGHT [0] POWDERY MILDEW [0] BACTERIAL BLIGHT

[0] MOSAIC [0] PEA ENATION MOSAIC [0] YELLOW BEAN MOSAIC

[0] OTHER (Specify) _____

14. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[0] APHIDS [0] OTHER (Specify) _____

15. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	ALSWEET	Fresh Seed Color	ALSWEET
Leaf Color	"	Mature Seed Color	"
Pod Color	"	Seed Shape	"
Pod Shape	"	Plant Habit	ALSWEET - ALASKA

REFERENCES: The following publication may be used as a reference aid for the standardization of character descriptions and terms:

1. Shoemaker, D. N., 1934. Descriptions of Types of Principal American Varieties of Garden Peas. U.S.D.A. Miscellaneous Publication, No. 170.
2. Hedrick, V. P., 1928. The Vegetables of New York. New York Agricultural Experiment Station. Vol. 1., Part 1.
3. Wade, B. L., 1943. A Key to Pea Varieties. U.S.D.A. Circular No. 676.

Nickerson's or any recognized color fan may be used to determine color of the described variety.

CORRECTED APPLICATION NO. 73008

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: Small Sieve Alsweet	2. KIND NAME: Pea	FOR OFFICIAL USE ONLY PVPO NUMBER: 73008
3. GENUS AND SPECIES NAME: Pisum Satiuum	4. FAMILY NAME *(Botanical)*: Leguminosae 5. DATE OF DETERMINATION: 8/69	FILING DATE: 10/31/72 TIME: 3:30 P.M. FEE RECEIVED: $750.00 CHARGES: —
6. NAME OF APPLICANT(S): MORRISON BROS. SEED CO.	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*: E. 7509 Sprague Ave. Spokane, Wash. 99213	8. TELEPHONE AREA CODE AND NUMBER: 509-924-1404
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*: Corporation	10. STATE OF INCORPORATION: Washington	11. DATE OF INCORPORATION: 1924

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

Morrison Bros. Seed Co. P.O. Box 13066 Spokane, Washington 99213

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [XX] 12A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52, P.L. 91-577)*
- [XX] 12B. Exhibit B, Botanical Description of the Variety
- [XX] 12C. Exhibit C, Objective Description of the Variety
- [XX] 12D. Exhibit D, Data Indicative of Novelty
- [XX] 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 [XX] NO

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).

9/28/72 Original Application Date
(DATE)

(SIGNATURE OF APPLICANT)
MORRISON BROS. SEED CO.

11/15/72 Corrected application date
(DATE)

(SIGNATURE OF APPLICANT)
BRUCE TAINIO