

No.



8300039

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Crites - Moscow Growers, 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 *eighteen* 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 (T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Sultan'

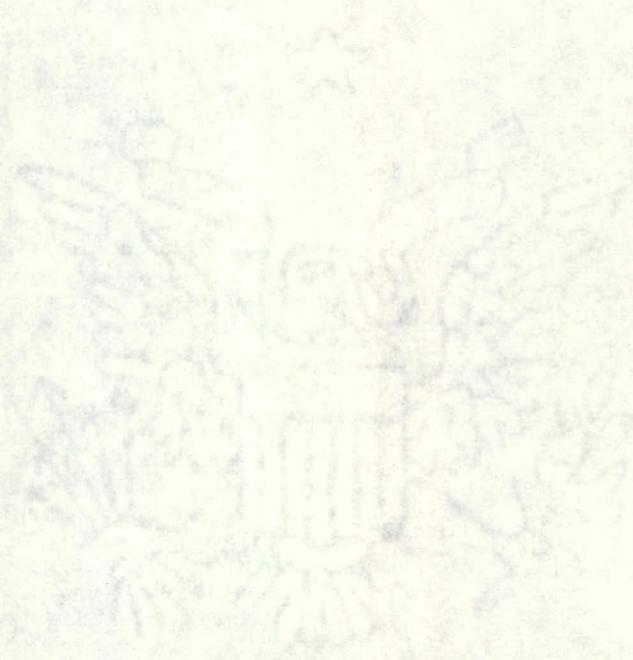


In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 26th day of March in the year of our Lord one thousand nine hundred and eighty-four.

Attest:

Kenneth A. Evans
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



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APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY		1b. VARIETY NAME		FOR OFFICIAL USE ONLY	
		"SULTAN"		PV NUMBER 8300039	
2. KIND NAME		3. GENUS AND SPECIES NAME		FILING DATE	TIME <input checked="" type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.
PEAS		Pisum Sativum		12-14-82	2:00
4. FAMILY NAME (BOTANICAL)		5. DATE OF DETERMINATION		FEE RECEIVED	DATE
Leguminosae		July 1, 1980		\$ 1,000	12-14-82
				\$ 500	3/12/84
6. NAME OF APPLICANT(S)		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)		8. TELEPHONE AREA CODE AND NUMBER	
Crites-Moscow Growers, Inc.		212 W, 8th St, P. O. Box 8912 Moscow, ID 83843		208-882-5519	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION		11. DATE OF INCORPORATION
Corporation			Idaho		May 10, 1933
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Rex L. Blodgett, Manager Crites-Moscow Growers, Inc. P. O. Box 8912, Moscow, ID 83843					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- 13B. Exhibit B, Novelty Statement.
- 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- 13D. Exhibit D, Additional Description of the Variety.

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). (If "Yes," answer 14B and 14C below.) YES NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? YES NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? FOUNDATION REGISTERED CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? YES NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) 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 Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

(DATE)
Dec 9, 1982
 (DATE)

CRITES-MOSCOW GROWERS, INC.
 (SIGNATURE OF APPLICANT)
Rex L. Blodgett
 (SIGNATURE OF APPLICANT)
 BY Rex L. Blodgett, General Manager

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



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EXHIBIT "A"

1. "Sultan" originated in Idaho during the fall of 1965 from a hand pollinated cross with Geneva 3 as the male parent and Perfection 132 as the female parent.
2. Geneva 3 was developed by Dr. Gerald Marx at the New York Agricultural Experiment Station in Geneva New York, and was released in 1965. It was an early dwarf freezer type with resistance to enation virus and powdery mildew.
3. Single plant selections occurred from the F₂ through the F₆ generation at which time a bulk selection was made. This selection was then increased on a small scale from the F₇-F₁₆ generations.
4. A final single plant selection was made in 1978 at the Prosser, Washington root rot nursery under the direction of Dr. John Kraft. This selection was then increased in the Moscow, Idaho trials of Crites-Moscow Growers. It was determined to be powdery mildew resistant at during such an increase in 1979. During the same year it showed resistance to fusarium wilt race 1, at Spillman Farm fusarium wilt race 1 nursery, conducted by Dr. Fred Muehlbauer of U.S.D.A.
5. "Sultan" has been a stable variety for the past 5 generations.
6. We believe "Sultan" to be uniform with no phenotypic variations.

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Subject: Pea Application No. 8300039, 'Sultan'.

Addendum to Exhibit A.

'Sultan' is a uniform variety with no phenotypic variations.

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EXHIBIT "B"

"SULTAN" is a double podded canner variety most similar to Trojan.
However, "SULTAN" is one day later than Trojan in maturity and
"SULTAN" is resistant to powdery mildew whereas Trojan is susceptible.

"SULTAN" is most similar to 'Trojan'.

CRITES-MOSCOW GROWERS, INC.
P. O. Box 8912
Moscow, Idaho 83843



PODS:

1 Shape: 1 - STRAIGHT 2 - SLIGHTLY CURVED 3 - CURVED 2 End: 1 POINTED (Alderman) 2 - BLUNT (Alaska)

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

1 Surface: 1 = SMOOTH 2 - ROUGH 2 Surface: 1 = SHINY 2 - DULL

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

0 8 CM. LENGTH 1 0 MM. WIDTH (Between sutures) 0 8 NO. SEEDS PER POD

SEEDS (95-100 Tenderometer):

2 Color: 1 - LIGHT GREEN 2 = GREEN 3 - DARK GREEN 4 = OTHER (Specify) _____

Weight: % 0 1 0 4 0 9 1 9 2 9 3 8 AVERAGE 4 9 0

SEEDS (Dry, Mature):

2 Shape: 1 - FLATTENED 2 - ANGULAR 3 - OVAL 4 - ROUNDED

3 Surface: 1 - SMOOTH 2 - DIMPLED 3 - WRINKLED 2 Surface: 1 - SHINY 2 - DULL

1 Color Pattern: 1 - MONOCOLOR 2 - MOTTLED 3 - STRIPED 4 - DOTTED

3 Primary Color: 1 - CREAMY-WHITE 2 - CREAM & GREEN 3 - LIGHT GREEN 4 - MEDIUM GREEN 5 - DARK GREEN 6 - BLUE-GREEN 7 - YELLOW 8 - BROWN 9 - RED

4 Secondary Color: 10 - GRAY 11 - BLACK

1 Hilum Floor Color: 1 - WHITE 2 - TAN 3 - BLACK 1 Cotyledon Color: 1 - GREEN 2 - YELLOW 3 - ORANGE

1 6 GRAMS PER 100 SEEDS

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

2 FUSARIUM WILT 1 NEAR-WILT 0 DOWNY MILDEW

0 ASCOCHYTA BLIGHT 2 POWDERY MILDEW 0 BACTERIAL BLIGHT

0 MOSAIC 1 PEA ENATION MOSAIC 0 YELLOW BEAN MOSAIC

2 OTHER (Specify) _____

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

0 APHIDS 0 OTHER (Specify) _____

INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	Perfection 132	Fresh Seed Color	Trojan
Leaf Color	Trojan	Mature Seed Color	Trojan
Pod Color	Trojan	Seed Shape	Regal 36
Pod Shape	8221	Plant Habit	Trojan

COMMENTS:



EXHIBIT D

BOTANICAL DESCRIPTION OF THE VARIETY

"Sultan" is a canner pea which bears double pods and has a determinate vine habit. It is similar in maturity to Trojan.

The vine is medium, zig-zag and erect; growing to a height of 60 cm. under Moscow, Idaho dry land conditions. It has approximately 17 nodes with 5 to 6 cm. internodes. Leaflets are paired, usually in 2's or 3's with medium marbling. Stipules are marbled and are non-clasping. The foliage is medium green with medium wax cover. The first inflorescence occurs in the 14th node. Flowers are white with greenish venation and are born primarily as doubles. The pods are straight and blunt, medium green in color and appear smooth averaging 8 cm. in length and 11 mm. in width with an average of 8 berries per pod.

We believe this description to be correct to the best of our knowledge.

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EXHIBIT E

Crites-Moscow Growers, Inc., Moscow, Idaho, believes it is the sole, original and first breeder of the "Sultan" variety of pea seed for which it solicits certified protection.

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