



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow 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 *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, 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 (U.S.C. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

GARDEN PEA

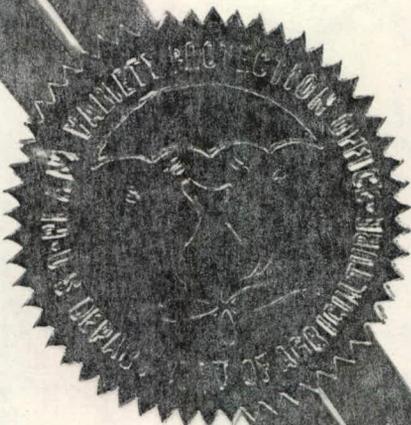
'Trolly'

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 15th day of April in the year of our Lord one thousand nine hundred and eighty-two.

Attest:

Kenneth H. Egan
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



THE HISTORY OF THE UNITED STATES

CHAPTER I THE EARLY PERIOD

From the first discovery of the continent to the year 1789

The first discovery of the continent was made by Christopher Columbus in 1492. He sailed from Spain and landed in the West Indies. The Spaniards then discovered the continent of North America. The first English settlement was made by the Pilgrims in 1620. They landed in Massachusetts and founded the town of Plymouth. The first French settlement was made by the French in 1608. They landed in the state of Virginia and founded the town of Jamestown. The first Spanish settlement was made by the Spaniards in 1565. They landed in the state of Florida and founded the town of St. Augustine.

The first American revolution was the American Revolution. It was fought between the American colonies and Great Britain. The American colonies won the war and became an independent nation. The first American president was George Washington. He was elected in 1789 and served for four years.

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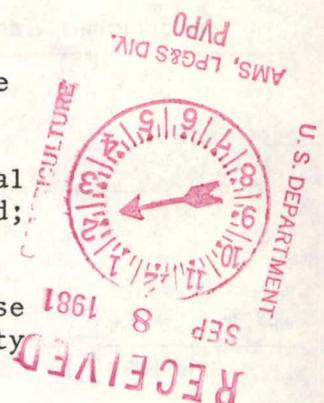
THE HISTORY OF THE UNITED STATES

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.



85000TS

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 XP-C114		1b. VARIETY NAME Trolly <i>ref 820126</i>		FOR OFFICIAL USE ONLY PV NUMBER 8200012	
2. KIND NAME Garden Pea		3. GENUS AND SPECIES NAME Pisum Sativum		FILING DATE 10/26/81	TIME 2:00 <input checked="" type="radio"/> A.M. <input type="radio"/> P.M.
4. FAMILY NAME (BOTANICAL) Leguminoase		5. DATE OF DETERMINATION February, 1980		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 10/26/81 12/28/81
6. NAME OF APPLICANT(S) Asgrow Seed Company		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Kalamazoo, MI 49001 9620-190-25		8. TELEPHONE AREA CODE AND NUMBER 616-385-6605	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Delaware		11. DATE OF INCORPORATION March 22, 1968	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: John A. Batcha Asgrow Seed Company 9620-190-25 Kalamazoo, MI 49001					

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.

September 2, 1981
 (DATE)

John A. Batcha
 (SIGNATURE OF APPLICANT)

(DATE)
 FORM GR-470 (1-78)

(SIGNATURE OF APPLICANT)

8200012

EXHIBIT A

Origin and Breeding History of ~~XP-C114~~ Garden Pea *TROLLY Set 820126*

The original cross, made in February 1976, was Rally by an afila breeding line.

The variety was developed by backcrossing seven times to the recurrent parent, Rally, with selfing generations after BC₁, BC₃, BC₅, and BC₇. Following BC₇ and two generations of selfing, the line was increased in the greenhouse and then planted as progeny rows in the field in Mexico in late 1979. In February 1980 these progenies were inspected and it was determined that the line was breeding true.

The value of the line was indicated from the performance of an increase from BC₆ in replicated yield trial in 1979. The line was nominated as an experimental variety in November 1980. ~~XP-C114~~ is a stable, true breeding line. We have been able to find no segregation.

Observations indicate ~~XP-C114~~ *TROLLY* is uniform and stable, within commercially acceptable levels.

8500015

U.S. DEPARTMENT
RECEIVED
SEP 8 1981
AMS, LPG&S DIV.
PYPD
OF
SIGNATURE



Asgrow Seed Company
subsidiary of The Upjohn Company

Kalamazoo, Michigan 49001

November 19, 1981

Mr. Thaddeus E. Frey
Examiner, Plant Variety Protection Office
United States Department of Agriculture
National Agricultural Library Building
Beltsville, Maryland 20705

Dear Mr. Frey:

Your letter of November 11, 1981 has been received concerning
Pea applications 800012 (~~XPC114~~) and 8200013 (XPC115).
TROLLY SET 820126

The following statement is applicable to both varieties:

"To our knowledge, there are no predictable variants in these varieties. As is true with other pea varieties, a small percentage of variants can occur within commercially acceptable limits, for almost any characteristic during the course of repeated commercial multiplication".

In effect, the above statement is an elaboration of the statement "observation indicates the variety is uniform and stable, within commercially acceptable limits".

Sincerely,

John A. Batcha
Inventory Manager

/jc

RECEIVED

NOV 27 1981



U. S. DEPARTMENT

AMS, LPG&S DIV.
EVPO

8200012

EXHIBIT B

Novelty Statement Concerning ~~XP-C114~~ Garden Pea

^{TROLLY} ~~XP-C114~~ ^{JE7820126}

^{TROLLY}

~~XP-C114~~ is unique as a canner pea because of its season, small sieve size, and because it exhibits the afila characteristic, in which leaflets are reduced and borne as tendrils.

To our knowledge the variety most similar to ~~XP-C114~~ ^{TROLLY} is Rally, except for its leaf characteristics. Difference includes but is not necessarily restricted to the following:

^{TROLLY}

~~XP-C114~~ was derived by backcrossing the afila characteristic into the variety, Rally, and therefore, ~~XP-C114~~ ^{TROLLY} is practically identical to Rally. The principal comparative characteristic that makes ~~XP-C114~~ ^{TROLLY} a distinct variety is that Rally has normal foliage and has two leaflet pairs on each leaf, whereas ~~XP-C114~~ ^{TROLLY} carries the "af" allele, which modifies leaflets to the extent that they are reduced to tendrils. ~~XP-C114~~ has additional tendrils where Rally has leaflets.

^{TROLLY}

8300013

RECEIVED
SEP 8 1981
U. S. DEPARTMENT OF AGRICULTURE
AMS, LPG&S DIV.
PVPD



United States
Department of
Agriculture

Agricultural
Marketing
Service

Livestock, Meat,
Grain, and
Seed Division

National Agricultural
Library Building
Beltsville, MD. 20705

6/82

MAY 27 1982

TO : National Seed Storage Laboratory
Fort Collins, CO 80521

SUBJECT

PI# 8200012 Pea 'Trolly' - Asgrow Seed Company

Attached is the above-identified sample and an Objective Description of Variety form in accordance with our Memorandum of Understanding and as agreed upon during Mr. Leese's visit with Dr. Louis Bass on June 12, 1972.

One copy of this duplicate form showing the result of your germination test on 100 seeds of pure seed of this sample should be returned to this Office. Return of the duplicate form will serve as acknowledgement of receipt of the sample.

GERMINATION:

99 %

DATE:

7/82

Sincerely,

OK-rfs 10/5/82

Kenneth H. Evans

Kenneth H. Evans
Acting Commissioner
Plant Variety Protection Office

Attachment: Seed Sample

In duplicate.

0911-5d

166240



The Agricultural Marketing Service
is an agency of the
United States Department of Agriculture



Asgrow Seed Company

82-12

Transfer of Plant Variety Protection Act Rights

Asgrow Seed Company, a Delaware Corporation with its principle place of business at 2605 E. Kilgore Road, Kalamazoo MI 49001, is the owner of the Plant Variety Protection Act Certificates and applications for certificates listed on and attached as Exhibit A to this document (the "Certificates and Applications").

For good and valuable consideration, receipt of which is hereby acknowledged, Asgrow hereby transfers all of its right, title and interest in and to the Certificates and Applications and to all rights relating thereto under the Plant Variety Protection Act to Seminis Vegetable Seeds, Inc., a California corporation, whose principle place of business is at 1905 Lirio Street, Saticoy, CA 93007-4206.

Dated: January 31, 1997

Asgrow Seed Company

By: Norman A Braksik
Norman A. Braksik
President



8. PODS:

Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)
 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman) 4 = OTHER (Specify) _____
 Surface: 1 = SMOOTH 2 = ROUGH Surface: 1 = SHINY 2 = DULL
 Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) _____
 CM. LENGTH MM. WIDTH (Between sutures) NO. SEEDS PER POD

9. SEEDS (95--100 Tenderometer):

Color: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = OTHER (Specify) _____
 Seive: % AVERAGE

SEEDS (Dry, Mature):

Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED
 Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED Surface: 1 = SHINY 2 = DULL
 Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED
 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
 Secondary Color: 10 = GRAY 11 = BLACK
 Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK Cotyledon Color: 1 = GREEN 2 = YELLOW 3 = ORANGE
 GRAMS PER 100 SEEDS

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

FUSARIUM WILT NEAR-WILT DOWNY MILDEW
 ASCOCHYTA BLIGHT POWDERY MILDEW BACTERIAL BLIGHT
 MOSAIC PEA ENATION MOSAIC YELLOW BEAN MOSAIC
 OTHER (Specify) _____

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

APHIDS OTHER (Specify) _____

12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness		Fresh Seed Color	Rally
Leaf Color		Mature Seed Color	Rally
Pod Color	Rally	Seed Shape	Rally
Pod Shape	Rally	Plant Habit	Rally

COMMENTS:

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY
PEA (*PISUM SATIVUM*)

NAME OF APPLICANT(S) Asgrow Seed Company	VARIETY NAME OR TEMPORARY DESIGNATION XP-C114 <i>TROLLY SET 820126</i>
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Kalamazoo, MI 49001 9620-190-25	FOR OFFICIAL USE ONLY PVPO NUMBER 8200012

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

Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. TYPE:

1 = GARDEN 2 = FIELD 3 = EDIBLE-PODDED

2. MATURITY:

Node number of first bloom: No. of days to processing Heat Units

No. of days Earlier than } 1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL

No. of days Later than } 4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

3. PLANT HEIGHT:

CM. HIGH

Cm. Shorter than } 1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL

Cm. Taller than } 4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

4. VINE:

Habit: 1 = DETERMINATE 2 = INDETERMINATE Stockiness: 1 = SLIM (Alaska) 3 = HEAVY (Alderman)
2 = MEDIUM (Thomas Laxton WR)

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

Internodes: 1 = STRAIGHT 2 = ZIG ZAG NUMBER OF NODES

5. LEAFLETS:

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

Wax: 1 = NONE 2 = LIGHT 3 = MEDIUM 1 = NOT MARBLED 2 = MARBLED (Alaska)
4 = HEAVY

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

6. STIPULES:

1 = LACKING 2 = PRESENT 1 = NOT CLASPING 2 = CLASPING

1 = NOT MARBLED 2 = MARBLED Size (Compared with leaflets): 1 = SMALLER 2 = SAME
3 = LARGER

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

7. FLOWER COLOR:

VENATION STANDARD WING KEEL 1 = WHITE 2 = GREENISH 3 = LAVENDER
4 = PURPLE 5 = RED

6 = OTHER (Specify) _____