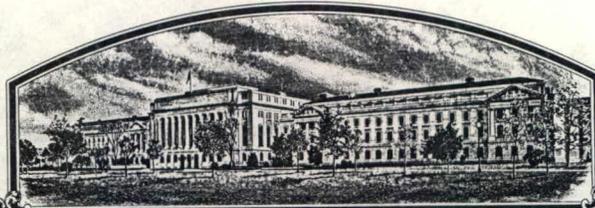


No.

8300133



# 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 OF 1930, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Stampede'



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 31st day of August in  
the year of our Lord one thousand nine hundred and eighty-four.

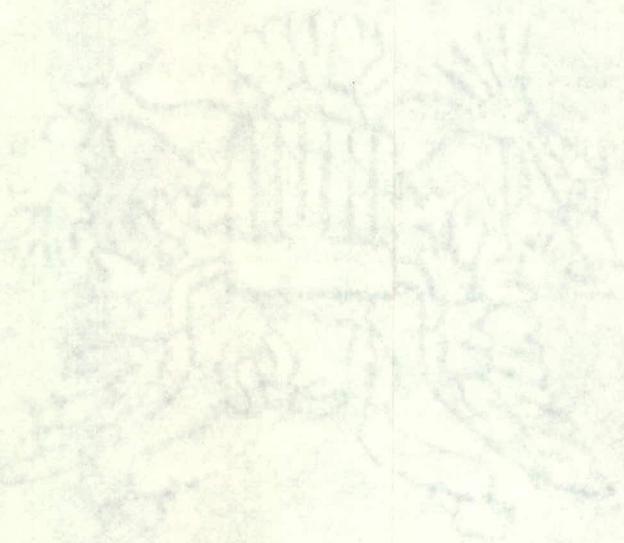
Attest:

*Kenneth H. ...*  
Commissioner

Plant Variety Protection Office  
Livestock, Meat, Grain & Seed Division  
Agricultural Marketing Service

*John R. Block*  
Secretary of Agriculture

1583



**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-F138		1b. VARIETY NAME <b>STAMPEDE r/s</b>		FOR OFFICIAL USE ONLY PV NUMBER <b>8300133</b>	
2. KIND NAME Garden Pea		3. GENUS AND SPECIES NAME <u>Pisum Sativum</u>		FILING DATE 5/20/83	TIME 8:30 A.M. <del>P.M.</del>
4. FAMILY NAME (BOTANICAL) Leguminosae		5. DATE OF DETERMINATION July 1980		FEE RECEIVED \$ 1,000 \$ 500.00	DATE 5/20/83 6/27/84
6. NAME OF APPLICANT(S) Asgrow Seed Company		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 9620-190-25 Kalamazoo, MI 49001		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 (9620-190-25) Asgrow Seed Company, Gull Road, Building 190 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.

April 27, 1983  
 (DATE)

John A. Batcha  
 (SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

## 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

Origin and Breeding History of XP-F138

The original cross was Bolero with an afila breeding line made in February 1976. <XP-F138> was developed by backcrossing seven times to the recurrent parent, Bolero, with selfing and selection for afila after BC<sub>1</sub>, BC<sub>3</sub>, BC<sub>5</sub>, and BC<sub>7</sub>. In 1980, following BC<sub>7</sub> and three generations of selfing, an afila family was planted in the field. This family was observed during the growing season and appeared to be uniform and breeding true. Observations in 1981 on selections from this family confirmed that it was uniform and breeding true.

In 1982 <XP-F138> was in experimental yield trial, and observations that year indicated the value of the line. <XP-F138> was nominated to the status of experimental variety in November 1982.

Observations indicated <XP-F138> is uniform and stable within commercially acceptable limits. As is true with other pea varieties, a small percentage of variants or offtypes can occur within commercially acceptable limits, for almost any characteristics during the course of repeated multiplication.

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EXHIBIT B

Novelty Statement Concerning <XP-F138> 'STAMPEDE'

'STAMPEDE'  
<XP-F138> is a main season freezer pea that exhibits the afila characteristic into Bolero, and therefore, XP-F138 is practically identical to Bolero. The principal difference between the two is Bolero has normal foliage with two leaflet pairs per leaf, whereas <XP-F138> has no leaflets, only tendrils and stipules. 'STAMPEDE'

Other varieties that may resemble <XP-F138> include Novella and XP-F139. 'STAMPEDE'

1. Novella differs from <XP-F138> in having only two flowers per node, while <XP-F138> has three flowers per node under normal conditions. In 1982 Novella was 80 heat units earlier to processing maturity than <XP-F138>, and the vine of Novella was 15 cm. shorter than that of <XP-F138>. 'STAMPEDE'
2. <XP-F139> was developed by backcrossing the afila characteristic into Puget, and therefore, differs from <XP-F138> in all the ways Puget differs from Bolero. The most obvious differences are in the pod and berry colour. Pods and berries of <XP-F138> (146A and 144A on the Royal Horticultural Society Colour Chart) are darker than those of <XP-F139> (144B for both characteristics in the RHS Colour Chart). Also, Puget is resistant to near wilt caused by race 2 of Fusarium oxysporum f. sp. pisi, whereas Bolero is susceptible.

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## PEA CANNING AND FREEZING TRIALS - WBS - 1982

11/16/82  
14-31+16-61

Plot No.	Variety	Date Cut	Total Cut Wt.	Green Pea Yield (GMS)	% Peas	Tdr.	Disp.	Degree Days	Sieve Size Distribution Percent							Ave. Size
									1	2	3	4	5	6	7	
30AB	Rigo	7-9	68	3746	12.1	89	F <sub>3</sub> ,3-4-5	1521	6	11	26	31	23	3	3.63	
		7-10	71	4831	15.0	100	F <sub>3</sub> C <sub>1</sub>	1546	4	10	21	33	26	6	3.85	
		7-11	71	5014	15.6	101	X	1573	6	10	23	30	22	9	3.79	
		7-12	56	4807	18.9	112	F <sub>3</sub>	1601	1	4	13	33	40	9	4.34	
111AB	Rigo Afila	7-7	80	3390	9.3	93	F <sub>5</sub> C <sub>1</sub> ,3-4-5	1482	5	12	28	40	15	Tr	3.48	
		7-8	91	4572	11.1	92	X	1500	4	13	25	42	15	1	3.54	
		7-10	68	4354	14.1	108	F <sub>3</sub>	1546	3	10	22	35	23	7	3.86	
		7-11	80	5120	14.1	117	F <sub>3</sub>	1573	1	5	17	36	33	8	4.19	
112AB	Rigo:Afila mix (50:50)	7-7	91	3200	7.8	88	F <sub>3</sub> C <sub>1</sub> ,3-4-5	1482	12	18	30	31	9	Tr	3.07	
		7-9	78	4945	14.0	94	F <sub>3</sub>	1521	3	9	23	37	25	3	3.81	
		7-10	75	4714	13.8	101	F <sub>3</sub>	1546	3	5	20	36	29	7	4.04	
		7-11	69	4448	14.2	110	F <sub>3</sub>	1573	3	7	18	39	27	6	3.98	
31AB	Bolero	7-9	65	4060	13.8	95	F <sub>3</sub> C <sub>1</sub> ,3-4-5	1521	3	10	34	39	14	Tr	3.51	
		7-10	81	5542	15.1	105	F <sub>3</sub>	1546	3	10	27	40	18	2	3.66	
		7-11	66	4500	15.0	104	X	1573	2	8	21	39	26	4	3.91	
		7-12	59	5174	19.3	126	X	1601	1	5	22	47	24	1	3.91	
114AB	Bolero Afila	7-9	67	2440	8.0	89	F <sub>3</sub> C <sub>1</sub> ,3-4-5@95	1521	8	18	39	30	5		3.06	
		7-11	57	3184	12.3	107	F <sub>3</sub>	1573	6	13	30	35	16	Tr	3.42	
		7-12	56	3825	15.0	113	F <sub>3</sub>	1601	5	10	25	41	17	2	3.61	
		7-13	70	4694	14.8	131	X	1633	2	6	22	46	23	1	3.85	
115AB	Bolero:Afila mix (50:50)	7-9	80	4158	11.5	92	F <sub>3</sub> C <sub>1</sub> ,3-4-5	1521	9	14	29	38	10		3.26	
		7-11	80	5830	16.1	107	F <sub>3</sub>	1573	5	10	24	34	25	2	3.70	
		7-12	65	5507	18.7	114	F <sub>3</sub>	1601	2	8	20	38	28	4	3.94	
		7-13	70	5184	16.3	128	X	1633	3	7	22	35	30	3	3.91	
32AB	Dual	7-10	109	9210	18.6	90	F <sub>5</sub> C <sub>16</sub> , <sup>3-4-5</sup> <sub>@93</sub>	1546	7	12	25	34	19	3	3.55 <sup>a</sup>	
		7-11	83	8728	23.2	92	F <sub>3</sub>	1573	4	8	22	37	27	2	3.81	
		7-12	84	8979	23.5	93	X	1601	6	10	24	41	18	1	3.58 <sup>b</sup>	
		7-15	92	10187	24.4	108	F <sub>5</sub> ,C-15,3-4-5	1677	5	11	25	38	21	Tr	3.59 <sup>b</sup>	

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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-F138
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 9620-190-25, Gull Road, Kalamazoo, MI 49001	FOR OFFICIAL USE ONLY PVPO NUMBER 8300133

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)

8. PODS:

1 Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED  2 End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)  
 3 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman)  
 4 = OTHER (Specify) \_\_\_\_\_  
 2 Surface: 1 = SMOOTH 2 = ROUGH  2 Surface: 1 = SHINY 2 = DULL  
 5 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  2 MM. WIDTH (Between sutures)  0  8 NO. SEEDS PER POD

9. SEEDS (95-100 Tenderometer):

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

1	2	3	4	5	6	7	8	AVERAGE											
0	7	1	5	3	5	3	3	1	0								3.	2	4

SEEDS (Dry, Mature):

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

1  8 GRAMS PER 100 SEEDS

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

<input type="checkbox"/> 2 FUSARIUM WILT	<input type="checkbox"/> 0 NEAR-WILT	<input type="checkbox"/> 0 DOWNY MILDEW
<input type="checkbox"/> 0 ASCOCHYTA BLIGHT	<input type="checkbox"/> 1 POWDERY MILDEW	<input type="checkbox"/> 0 BACTERIAL BLIGHT
<input type="checkbox"/> 0 MOSAIC	<input type="checkbox"/> 0 PEA ENATION MOSAIC	<input type="checkbox"/> 0 YELLOW BEAN MOSAIC
<input type="checkbox"/> OTHER (Specify) _____		

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

0 APHIDS  OTHER (Specify) \_\_\_\_\_

12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	---	Fresh Seed Color	Bolero
Leaf Color	---	Mature Seed Color	Bolero
Pod Color	Bolero	Seed Shape	Bolero
Pod Shape	Bolero	Plant Habit	Bonnaire

COMMENTS: