

No.

8600052



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Rogers 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 *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 (1930, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

GARDEN BEAN

'Venture'



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, D. C. this 28th day of April in the year of our Lord one thousand nine hundred and eighty-nine.

Attest:

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

*Clayton Yentler*  
Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**

(Instructions on reverse)

1. NAME OF APPLICANT(S) <b>ROGERS BROS. SEED COMPANY</b>		2. TEMPORARY DESIGNATION <b>(H574-1-1)</b>	3. VARIETY NAME <b>'VENTURE'</b>
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) <b>1755 WESTGATE DR. #100 BOISE ID 83704</b>		5. PHONE (Include area code) <b>(208) 322-7272</b>	<b>FOR OFFICIAL USE ONLY</b>
6. GENUS AND SPECIES NAME <b>Phaseolus vulgaris</b>	7. FAMILY NAME (Botanical) <b>Leguminosae</b>		PVPO NUMBER <b>8600052</b>
8. KIND NAME <b>Bean</b>	9. DATE OF DETERMINATION <b>1982</b>	FILING DATE <b>01/14/86</b> TIME <b>2:00</b> <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) <b>ROGERS BROTHERS SEED COMPANY</b>		FEES RECEIVED AMOUNT FOR FILING \$ <b>1800</b> DATE <b>01/14/86</b> AMOUNT FOR CERTIFICATE \$ <b>200<sup>00</sup></b> RATE <b>Mar. 30, 1989</b>	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>Delaware</b>		12. DATE OF INCORPORATION	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS <b>1755 Westgate Dr. #100 Boise, Id 83704</b>			

PHONE (Include area code): **(208) 322-7272**

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

- a.  Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- b.  Exhibit B, Novelty Statement.
- c.  Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.)
- d.  Exhibit D, Additional Description of Variety.
- e.  Exhibit E, Statement of the Basis of Applicant's Ownership.

15. 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) of the Plant Variety Protection Act.)  Yes (If "Yes," answer items 16 and 17 below)  No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  Yes  No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?  Foundation  Registered  Certified

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?  Yes (If "Yes," give date)  No

19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?  Yes (If "Yes," give names of countries and dates)  No

**Released for commercial sales in the U.S.A. in March 1987.**

20. The applicant(s) declare(s) that a viable sample of basic seeds 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 Protection Act.

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

SIGNATURE OF APPLICANT <i>Lee Van Treck, Assistant Secy.</i>	DATE <b>Nov. 29, 1988</b>
SIGNATURE OF APPLICANT	DATE

## INSTRUCTIONS

**General:** Send an original copy of the application and exhibits, at least 2,500 viable seeds (*furnish only untreated seed*), and \$1,800 fee (\$200 filing fee and \$1,600 examination fee) to the U. S. Department of Agriculture, Agricultural Marketing Service, 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

- 9 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.
- 14a 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.
- 14b 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 are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 14d 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.
- 14e Section 52(4) of the Plant Variety Protection Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.
- 15 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.)
- 19 See Sections 41. (i,j) and 42 of the Plant Variety Protection Act and Section 180.7 of the Regulations and Rules of Practice for eligibility requirements.
- NOTE: All information submitted in support of an application becomes PUBLIC INFORMATION once the certificate is issued. (See Section 180.17 of the Regulations and Rules of Practice.)

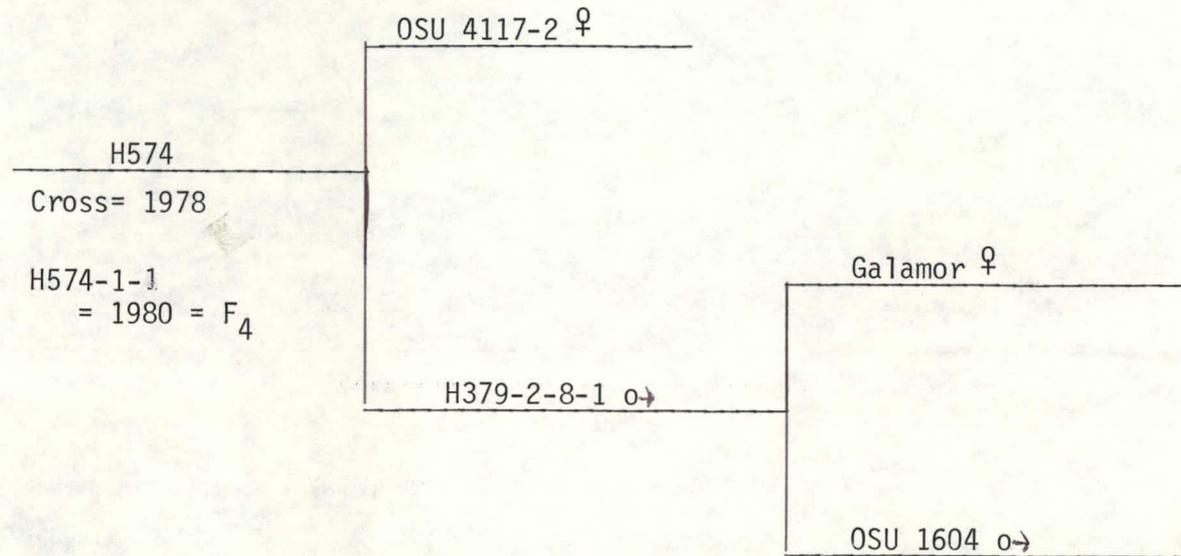


Exhibit 14A.

Pedigree Chart For: 'Venture' (H574-1-1), Bean

November 18, 1988

By: Rogers Brothers Seed Company



First Increase in 1982

Differs from:

I. Provider

1. Two days earlier.

N

8600052



11/15/88

UNITED STATES DEPT. OF AGRICULTURE  
PLANT VARIETY PROTECTION OFFICE  
WASHINGTON, D.C. 20250

8600052

Exhibit 14A. (continued)

November 18, 1988

Origin And Breeding History  
Of 'Venture'

'Venture' (H574-1-1) is the result of a hand pollinated cross between OSU 4117-2 (♀) and H379-2-8-1 (♂) in 1978. This variety was selected as an F<sub>4</sub> in 1980. 'Venture' was first increased in 1982, when 93 pounds were harvested. Trial sales began in 1985 with a sale of 32,121 pounds. Commercial sales began in March 1987 with 210,350 pounds delivered.

'Venture' has been observed since 1981, and has proven to be stable. The only variants have been a trace ( <.05 percent ) of flat pods and pods with strings, which are common mutants found in all snap beans (1 - 2 percent are common).

Trials and Sales History

YEAR	1985 (March)	1986 (March)	1987 (March)	1988 (March)
AMOUNT	32,121 Lbs. (Trail Samples)	52,587 Lbs. (Trial Samples)	210,350 Lbs. (Beginning of Commercial Sales)	584,556 Lbs.

Origin and Breeding History  
of 'Ventura'

'Ventura' (H574-1-1) is the result of a hand-pollinated cross between OSU 417-2 (♀) and H379-2-8-1 (♂) in 1978. This variety was selected as an F4 in 1980. 'Ventura' was first increased in 1987 when 93 pounds were harvested. Trial sales began in 1988 with a sale of 37,171 pounds. Commercial sales began in March 1987 with 210,350 pounds delivered. 'Ventura' has been observed since 1981, and has proven to be stable. The only variants have been a trace (0.05 percent) of first pods and pods with stripes, which are common mutants found in all snap beans (1 - 2 percent are common).

Trial and Sales History

YEAR	AMOUNT
1988 (March)	37,171 lbs. (Trial Samples)
1986 (March)	52,587 lbs. (Trial Samples)
1987 (March)	210,350 lbs. (Remainder of Commercial Sales)
1988 (March)	264,356 lbs.

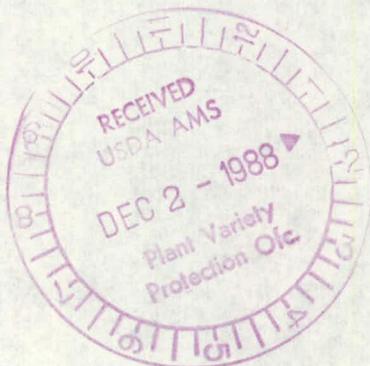


Exhibit A. : Addendum

November 18, 1988

Regarding the statement "The only variants (in 'Venture') have been a trace of flat pods and pods with strings, which are common mutants found in all snap beans."

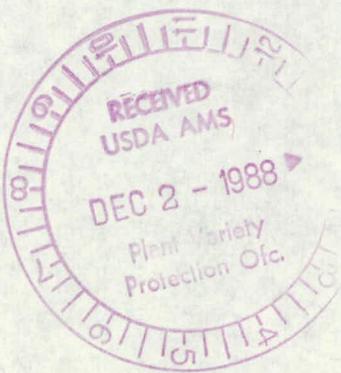
This is a statement that can be made of almost all snap bean varieties with about 99 percent predictability. The only concern is that these qualities (flat pods and strings) are kept within the range of commercial acceptability. The range of commercial acceptability for these traits is between one percent and two percent. A number of commercial lines have two percent flat pods and strings.

The frequency of flat pods and stringed mutants in 'Venture' is less than one-half of one percent under field conditions. Quality Control procedures within the company insure that this percentage remains well within the range of commercial acceptability.

Regarding the statement "The only varieties (in 'Ventura') have been a range of list pods and pods with strings, which are common mutants found in all snap beans."

This is a statement that can be made of almost all snap bean varieties with about 99 percent predictability. The only concern is that these varieties (list pods and strings) are kept within the range of commercial acceptability. The range of commercial acceptability for these traits is between one percent and two percent. A number of commercial lines have two percent list pods and strings.

The frequency of list pods and stringed mutants in 'Ventura' is less than one-half of one percent under field conditions. Quality Control procedures within the company insure that this percentage remains well within the range of commercial acceptability.



8600052

Exhibit 14B.

November 18, 1988

Novelty Statement

*MOST 3/8/89 per phone letter VHL.*  
'Venture' is similar to 'Provider' in that both are early in maturity, but differ in that (1) it is two to three days earlier than 'Provider' at processing stage and (2) reaches 50 percent buckskin nearly 10 days earlier.

'Venture' also differs from 'Provider' in having white vs. purple seed and a slightly darker external pod color of 146C vs. 144C for 'Provider'. In addition 'Venture' has a distinct strong Blue Lake flavor, whereas 'Provider' does not.

November 12, 1988

ASHP 1-8

Novelty Statement

'Ventura' is similar to 'Provider' in that both are early in maturity, but differ in that (1) it is two to three days earlier than 'Provider' at processing stage and (2) reached 50 percent packable nearly 10 days earlier.

'Ventura' also differs from 'Provider' in having white vs. purple seed and a slightly darker external pod color of 145C vs. 144C for 'Provider'. In addition 'Ventura' has a distinct strong blue lake flavor, whereas 'Provider' does not.



EXHIBIT B ADDENDUM 'VENTURE'

860052

PROCESSING DATA - BEANS - 1988

VARIETY VENTURE		COLOR VARIATION	
PLOT NO.	88-0414	POUNDS/ACRE	
TRAIL	PROCESSING	POD/PLANT %	
HARVEST DATE	7/29	CANNED/FROZEN	
REPLICATE NO.		SIEVE DISTRIB:	WT %
HARVEST NO.	7	1, 2 & 3	140 6
TYPE		4	413 17
ESTIMATED SIEVE	5-6	5	960 39
FEET OF ROW	10'	6 AND OVER	935 38
PLANTS/PLOT	47	SIEVE TESTED	5 6
TOTAL PLANT WT	12 1/2 #	PERCENT SEED	95 13 1/2
TOTAL POD WT	2832 gr	PERCENT FIBER	

COMMENTS: 0 unsnipped 2573 gr

PROCESSED: frozen / canned

PROCESSING DATA - BEANS

VARIETY PROVIDER		COLOR VARIATION	
PLOT NO.	88-0416	POUNDS/ACRE	
TRAIL	PROCESSING	POD/PLANT %	
HARVEST DATE	8/3	CANNED/FROZEN	
REPLICATE NO.		SIEVE DISTRIB:	WT %
HARVEST NO.	3	1, 2 & 3	207 14
TYPE		4	440 28
ESTIMATED SIEVE	5	5	572 38
FEET OF ROW	10'	6 AND OVER	299 20
PLANTS/PLOT	32	SIEVE TESTED	5
TOTAL PLANT WT	9 #	PERCENT SEED	6.50%
TOTAL POD WT	1829	PERCENT FIBER	

COMMENTS: unsnipped pods 2

snipped wt 1623

PROCESSED:



U.S. DEPARTMENT OF AGRICULTURE  
 AGRICULTURAL MARKETING SERVICE  
 LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
 BELTSVILLE, MARYLAND 20705

EXHIBIT C  
 (Bean)

OBJECTIVE DESCRIPTION OF VARIETY  
 BEAN (*Phaseolus vulgaris* L.)

NAME OF APPLICANT(S) ROGERS BROS. SEED COMPANY	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 1755 WESTGATE DR. #100 BOISE, ID 83704	PVPO NUMBER <b>8600052</b>
	VARIETY NAME OR TEMPORARY DESIGNATION 'VENTURE'

Place numbers in the boxes (e.g.    ) for the characters that best describe this variety. Measured data should be for SPACED PLANTS. Ranges may also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: \_\_\_\_\_ . The location of test area is \_\_\_\_\_ . Please answer questions appropriate for your variety if the information is available.

1. TYPE:

1 = Field (dry-edible)      2 = Garden

2. MARKET MATURITY:

Days to edible pods        Days to green shells

Days to dry seeds

Heat units to edible pods          Heat units to green shells

Heat units to dry seeds

No. days earlier than .....  }  
 ..... Same as ..  }  
  No. days later than .....  }

1 = Tendercrop      2 = Kentucky Wonder  
 3 = Kinghorn Wax      4 = White Kidney  
 5 = Michelite 62      6 = Dwarf Horticultural  
 7 = Bush Blue Lake 290      8 = Other (specify below)  
PROVIDER (season)

3. PLANT:

1 = Determinate      2 = Indeterminate

cm height

cm shorter than .....  }  
 Same as ..  } comparison variety from above

cm taller than .....  }

cm spread         Number primary branches near base

cm narrower than .....  }  
 width same as ...  } comparison variety from above

cm wider than .....  }

Main stalk: 1 = brittle      2 = wirey

Branching habit:  
 1 = compact      2 = open

1 = stout      2 = thin

7

3. PLANT: (Cont'd)

3 Pod position: 1 = low 2 = high 3 = scattered

4 Bush form (illustrated below):



1 = spherical bush form

2 = stem bush form

3 = wide bush form

4 = high bush form

5 = other (specify) \_\_\_\_\_

4. LEAVES:

2 1 = smooth 2 = wrinkled

1 1 = dull 2 = glossy

2 Size: 1 = small (Earliwax) 2 = medium 3 = large (Tendercrop)

2 Color: 1 = light green (as light or lighter than Bountiful) 2 = medium green  
3 = dark green (as dark or darker than Bush Blue Lake 290)

5. FLOWERS:

1 Color: 1 = white 2 = cream 3 = pink 4 = lilac 5 = purple 6 = Other (specify) \_\_\_\_\_

4  0 Days to 50% bloom

6. FRESH PODS: (Edible maturity, average for 20 pods)

2 Exterior color: 1 = light green (as light or lighter than Bountiful)  
2 = medium green  
3 = dark green (as dark or darker than Bush Blue Lake 290)  
4 = light yellow (Brittlewax)  
5 = golden yellow (Cherokee Wax)  
6 = green-red variegated (Horticultural)  
7 = other (specify) \_\_\_\_\_

% Sieve size distribution at optimum maturity for non-flat pods

Note:

- 1 = 4.76 mm to 5.76 mm
- 2 = 5.76 mm to 7.34 mm
- 3 = 7.34 mm to 8.34 mm
- 4 = 8.34 mm to 9.53 mm
- 5 = 9.53 mm to 10.72 mm
- 6 = 10.72 mm or larger

1	2	3	4	5	6
	4		23	48	25

3 sieve	<input type="checkbox"/> 1 <input type="checkbox"/> 3	cm length	<input type="checkbox"/> 0 <input type="checkbox"/> 7	mm width	<input type="checkbox"/> 0 <input type="checkbox"/> 7	mm thickness
4 sieve	<input type="checkbox"/> 1 <input type="checkbox"/> 4	cm length	<input type="checkbox"/> 0 <input type="checkbox"/> 8	mm width	<input type="checkbox"/> 0 <input type="checkbox"/> 8	mm thickness
5 sieve	<input type="checkbox"/> 1 <input type="checkbox"/> 5	cm length	<input type="checkbox"/> 0 <input type="checkbox"/> 9	mm width	<input type="checkbox"/> 1 <input type="checkbox"/> 0	mm thickness
6 sieve	<input type="checkbox"/> 1 <input type="checkbox"/> 5	cm length	<input type="checkbox"/> 1 <input type="checkbox"/> 0	mm width	<input type="checkbox"/> 1 <input type="checkbox"/> 0	mm thickness



8

6. FRESH PODS: (Cont'd)

- 3 Cross section pod shape: 1 = flat 2 = oval 3 = round 4 = heart
- 2 Creaseback: 1 = present 2 = absent
- 2 Pubescence: 1 = none 2 = sparse 3 = considerable
- 1 Spur: 1 = straight 2 = slightly curved 3 = curved
- 1 Constrictions: 1 = none 2 = slight 3 = deep
- 2 Pod flesh: 1 = light 2 = medium 3 = dark
- 1  5 mm spur length
- 2 Fiber: 1 = none 2 = sparse 3 = considerable
- 7 Number of seeds per pod
- 1 Surface: 1 = smooth 2 = rough
- 2 Suture string: 1 = present 2 = absent
- 3 Seed development (Snap Bean): 1 = slow 2 = medium 3 = fast
- 1 Machine harvest: 1 = adapted 2 = not adapted
- 3 Pod flavor: (1) Standard (Tendercrop)  
 (2) Mild Blue Lake (BBL 274)  
 (3) Strong Blue Lake (Pole FM1)  
 (4) Mild Romano (Roma)  
 (5) Strong Romano (Pole Romano)  
 (6) Other (specify) \_\_\_\_\_

7. SEED COAT COLOR:

- 1 1 = Monochrome 2 = Polychrome  2 1 = shiny 2 = dull
- 1 Primary color: } 1 = white 2 = yellow 3 = buff 4 = tan
- Secondary color: } 5 = brown 6 = pink 7 = red 8 = purple  
 9 = blue 10 = black 11 = other (specify) \_\_\_\_\_
- 1 Color Pattern: 1 = none 2 = splashed 3 = mottled 4 = striped 5 = flecked 6 = dotted
- Secondary color location: 1 = hilar ring 2 = ventral surface  
 3 = sides 4 = dorsal surface  
 5 = not restricted to any area 6 = combination of location (specify below)
- 1 Hilar ring on colored seeds: 1 = absent 2 = narrow 3 = butterfly shaped

8. SEED SHAPE AND SIZE:

- 2 Hilum view: 1 = elliptical 2 = oval 3 = round  2 Cross section: 1 = elliptical 2 = oval 3 = cordate 4 = round



8. SEED SHAPE AND SIZE: (Cont'd)

2 1 = truncate ends 2 = rounded ends

3  0 gm/100 seed

0  2 gm/100 seed lighter than .....  8

gm/100 seed same as ....

gm/100 seed heavier than .....

} comparison variety from page one

9. ANTHOCYANIN: (1 = absent 2 = present)

1 Flowers

1 Stems

1 Pods

1 Seeds

1 Leaves

10. DISEASE RESISTANCE (0 = not tested 1 = susceptible 2 = resistant):

0 Anthracnose (specify race below) \_\_\_\_\_

0 Rust (specify race below) \_\_\_\_\_

0 Powdery mildew

0 Fusarium root rot

0 Pythium root rot

0 Rhizoctonia root rot

0 Pythium wilt

0 Angular leaf spot

0 Bacterial wilt

0 Halo blight (specify race below) \_\_\_\_\_

0 Fuscous blight

0 Red node virus

0 Pod mottle virus

2 Bean common mosaic virus (specify strain below)  
BV1, NY 15 \_\_\_\_\_

0 Mosaic mottle

0 Black root

0 Bean yellow mosaic virus

0 Curly top

0 Other (specify below) \_\_\_\_\_

11. INSECT RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

0 Aphids

0 Leaf hopper

0 Lygus

0 Pod borer

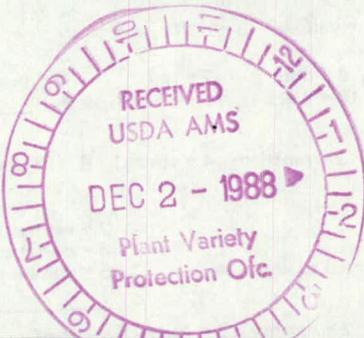
0 Root knot nematode

0 Seed corn maggot

0 Thrips

0 Weevils

0 Other (specify below) \_\_\_\_\_



12. PHYSIOLOGICAL RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

0 Heat

0 Cold

0 Drought

0 Air pollution

13. COMMENTS:

1. Smaller bush than Provider
2. Darker pods than Provider
3. Matures two to four days earlier than Provider.
4. Shows more pod distortion under hotter growing conditions than Provider.

8600052

Exhibit 14D.

November 18, 1988

Additional Description Of The Variety

'Venture' is a very early, 51 day, medium sieved (8.5 - 9.5 mm) , snap bean. It produces pods that are 15 to 16 cm. in length and are a bright, darker green color. The pod flavor is a strong Blue Lake flavor, typical of the Oregon Blue Lake types. The bush is an upright bush (34 to 42 cm), with the pods held mid to high in the bush. A few early blossoms can be seen above the leaf canopy, but with the majority within the upper bush area.

'Venture' is resistant to common Bean Mosaic (BV<sub>1</sub> and NY<sub>15</sub>).

//

November 18, 1988

Exhibit 14D

Additional Description of the Variety

'Venture' is a very early, 51 day, medium sized (8.5 - 9.5 cm) snap bean. It produces pods that are 15 to 16 cm in length and are a bright, darker green color. The pod flavor is a strong blue lake flavor, typical of the Oregon Blue Lake types. The bush is an upright bush (84 to 92 cm), with the pods held mid to high in the bush. A few early blossoms can be seen above the leaf canopy, but with the majority within the upper bush area. 'Venture' is resistant to common Bean Mosaic (BY) and N.Y.S.



January 25, 1989

Statement Of The Basis Of Applicant's Ownership

The variety 'Venture' is the result of a hand pollinated cross between OSU 4117-2 (~~♀~~) and H379-2-8-1 (♂) made by Gallatin Valley Seed Co. in 1978. This variety was further refined and selected as an F<sub>4</sub> in 1980. All selections since 1978 have been made by Gallatin Valley Seed Co., a subsidiary of Rogers Brothers Seed Company.

In January, 1987, Gallatin Valley Seed Co. was totally integrated with Rogers Brothers. It is for this reason that our recent correspondence identifies Rogers Brothers Seed Company as the official owner of 'Venture'.

January 25, 1989

Exhibit 1A: Addendum

Statement Of The Basis Of Applicant's Ownership

The variety 'Venture' is the result of a hard selected cross between Q2U 417-2 (P) and H2V-1-8-1 (P) made by Gallatin Valley Seed Co. in 1978. This variety was further refined and selected as an F4 in 1980. All selections since 1978 have been made by Gallatin Valley Seed Co., a subsidiary of Rogers Brothers Seed Company.

In January, 1988, Gallatin Valley Seed Co. was liquidated and its assets were sold to Rogers Brothers Seed Company. It is for this reason that our recent correspondence identifies Rogers Brothers Seed Company as the official owner of 'Venture'.



# State of Delaware

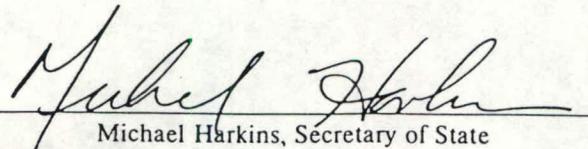


## Office of Secretary of State

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I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF DELAWARE  
DO HEREBY CERTIFY THAT "ROGERS BROTHERS SEED COMPANY", FILED A  
CERTIFICATE OF AMENDMENT, CHANGING ITS CORPORATE TITLE TO "ROGERS  
NK SEED CO.", ON THE TWENTY-SIXTH DAY OF DECEMBER, A.D. 1990, AT 10:01  
O'CLOCK A.M.



  
Michael Harkins, Secretary of State

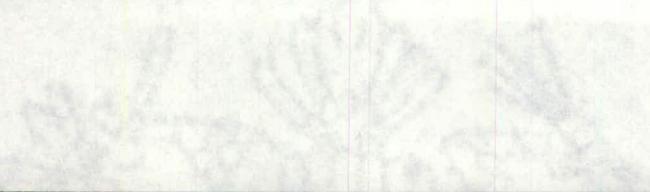
AUTHENTICATION:



DATE: 10/08/1991



8661



DO NOT WRITE IN THIS SPACE

AMENDED  
STATEMENT AND DESIGNATION  
BY  
FOREIGN CORPORATION

ROGERS NK SEED CO.

\_\_\_\_\_, a corporation  
organized and existing under the laws of Delaware,  
and which is presently qualified for the transaction of intrastate business in the  
State of California, makes the following statements and/or designation:

That the name of the corporation has been changed to that hereinabove set forth  
and that the name relinquished at the time of such change was \_\_\_\_\_

ROGERS BROTHERS SEED COMPANY

ROGERS NK SEED CO.  
(Name of Corporation)

William B. Albers  
(Signature of corporate officer)

William B. Albers, President  
(Typed name and title of officer signing)

INSTRUCTIONS:

1. If this Amended Statement shows a change of corporate name, there must be attached to this Amended Statement a certificate of an authorized public official of the state or place of incorporation, that such change of name was made in accordance with the laws of that state or place.
2. For filing this Amended Statement there is a fee of \$15.00.



Office of the Secretary of State

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I, WILLIAM T. QUILLEN, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "ROGERS NK SEED CO.", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "ROGERS SEED CO.", THE FIFTH DAY OF MAY, A.D. 1994, AT 9 O'CLOCK A.M.



*William T. Quillen*

William T. Quillen, Secretary of State

0810041 8320

AUTHENTICATION: 7120759

944080001

DATE: 05-16-94

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CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
ROGERS NK SEED CO.

Adopted in accordance with the provisions  
of Section 242 of the General Corporation  
Law of the State of Delaware

EFFECTIVE DATE: June 1, 1994

We, Willem van Overschot, President, and Richard B. Geller, Secretary, of Rogers NK Seed Co., a corporation existing under the laws of the State of Delaware, do hereby certify as follows:

FIRST: The Certificate of Incorporation of the corporation was filed on 2/27/75.

SECOND: The Certificate of Incorporation of said corporation has been amended as follows:

By striking out the whole of Article I thereof as it now exists and inserting in lieu and instead thereof, a new Article I, reading as follows:

ARTICLE I

Name

The name of the Corporation is ROGERS SEED CO.

THIRD: Such amendment has been duly adopted in accordance with the provisions of the General Corporation Law of the State of Delaware, by the unanimous written consent of all of the stockholders entitled to vote in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

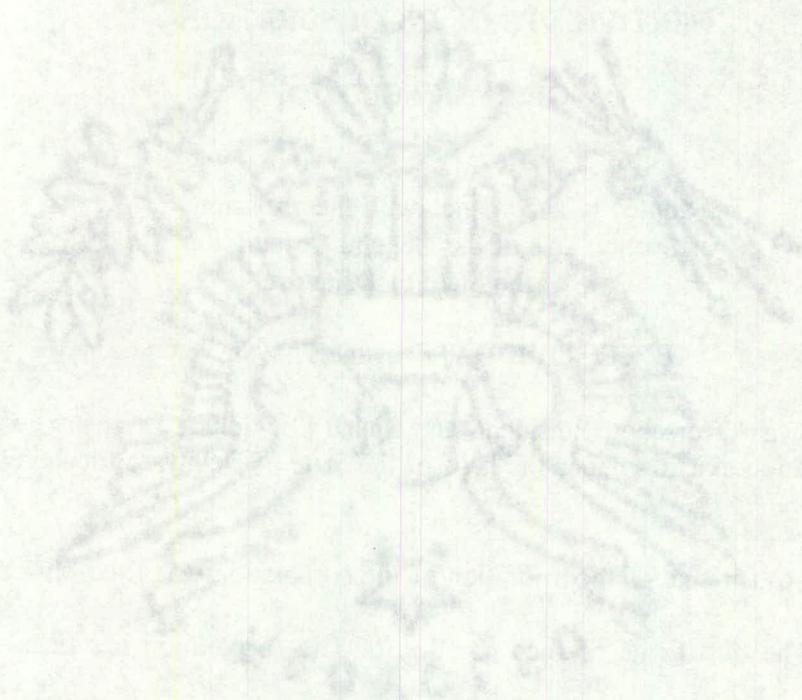
FOURTH: See attached Written Consent of Sole Shareholder and Board of Directors' Resolution.

IN WITNESS WHEREOF, we have signed this certificate this 13<sup>th</sup> day of April, 1994.

Willem van Overschot  
Willem van Overschot, President

Richard B. Geller  
Richard B. Geller, Secretary

Tada



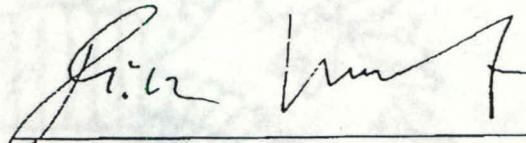
ROGERS NK SEED CO.

WRITTEN CONSENT OF SOLE SHAREHOLDER

SANDOZ CORPORATION, owner of all of the issued and outstanding shares of ROGERS NK SEED CO., hereby consents, pursuant to Section 228 of the Delaware General Corporation Law, to the adoption of the following resolution as and for the act of the shareholder:

RESOLVED, that SANDOZ CORPORATION, as sole shareholder, approves the amendment to Article I of the Certificate of Incorporation of ROGERS NK SEED CO., changing its name to **ROGERS SEED CO.**

Dated: April 22, 1994

  
Heinz P. Imhof,  
Chief Executive Officer  
Sandoz Corporation

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ROGERS NK SEED CO.

RESOLUTION

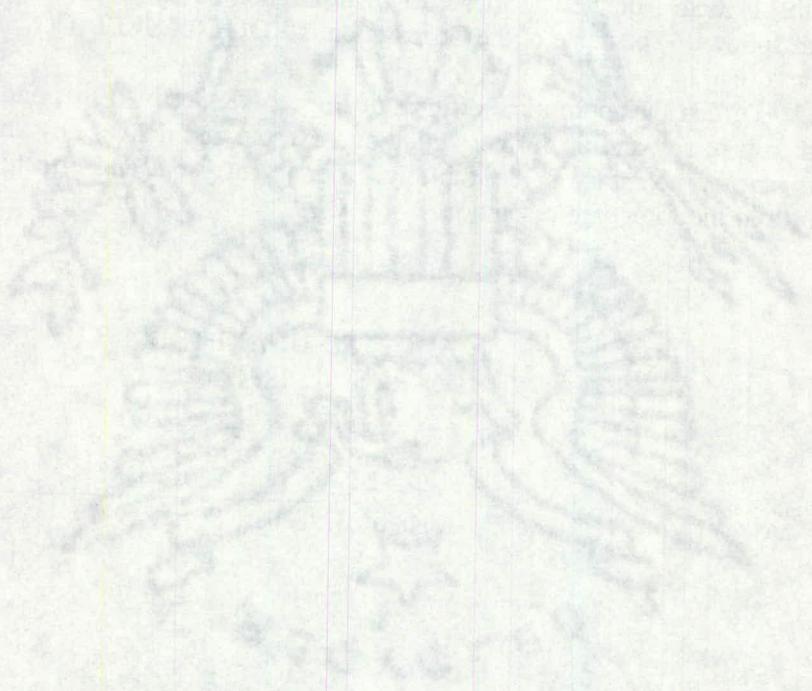
RESOLVED, that according to Section 242 of the General Corporation Law of the State of Delaware, that Article I of the Certificate of Incorporation be amended, effective June 1, 1994, to read as follows: The name of the Corporation is **ROGERS SEED CO.**; and, further,

RESOLVED, that the appropriate officers of Rogers NK Seed Co. be, and they hereby are, authorized to take any and all further action and execute and deliver any and all further documents that may be necessary or desirable in order to carry out and effectuate fully the purposes set forth in the foregoing resolution.

ADOPTED UNANIMOUSLY BY THE BOARD  
MARCH 31, 1994

Richard B. Geller  
Richard B. Geller, Secretary

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State of Delaware  
Office of the Secretary of State PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"ROGERS SEED CO.", A DELAWARE CORPORATION,  
WITH AND INTO "NOVARTIS SEEDS, INC." UNDER THE NAME OF "NOVARTIS SEEDS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-FIFTH DAY OF JUNE, A.D. 1997, AT 9 O'CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



*Edward J. Freel*

Edward J. Freel, Secretary of State

0829320 8100M  
971211787

AUTHENTICATION: 8531908  
06-26-97

DATE:



STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 09:00 AM 06/25/1997  
971211787 - 0829320

**CERTIFICATE OF MERGER  
OF  
ROGERS SEED CO.  
INTO  
NOVARTIS SEEDS, INC.**

The undersigned corporation organized and existing under and by virtue of the General Corporation Law of Delaware,

**DOES HEREBY CERTIFY:**

**FIRST:** That the name and state of incorporation of each on the constituent corporations of the merger is as follows:

<b>NAME</b>	<b>STATE OF INCORPORATION</b>
Novartis Seeds, Inc.	Delaware
Rogers Seed Co.	Delaware

**SECOND:** That an Agreement and Plan of Merger between the parties to the merger has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations in accordance with the requirements of section 251 of the General Corporation Law of Delaware

**THIRD:** That the name of the surviving corporation is Novartis Seeds, Inc.

**FOURTH:** That the Certificate of Incorporation of Novartis Seeds, Inc., a Delaware corporation which will survive the merger, shall be the Certificate of Incorporation of the surviving corporation.

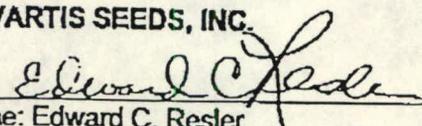
**FIFTH:** That the executed Agreement and Plan of Merger is on file at the principal place of business of the surviving corporation, the address of which is 7500 Olson Memorial Highway, Golden Valley, MN 55427.

**SIXTH:** That a copy of the Agreement and Plan of Merger will be furnished by the surviving corporation, on request and without cost, to any stockholder of any constituent corporation.

**SEVENTH:** That this Certificate of Merger shall be effective on July 1, 1997.

Dated June 23, 1997

**NOVARTIS SEEDS, INC.**

By:   
Name: Edward C. Resler  
Title: Vice President & General Counsel

