



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Coker's Pedigreed 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, 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. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Coker 488'

*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 13th day of July in the year of our Lord one thousand nine hundred and seventy-eight*

Attest:

*Edward H. Lee*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Bob D. England*  
Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME Coker 488	FOR OFFICIAL USE ONLY	
		PV NUMBER	7800035
2. KIND NAME Soybean	3. GENUS AND SPECIES NAME Glycine max	FILING DATE	TIME
		3-17-78	2:50 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.
4. FAMILY NAME (BOTANICAL) Leguminosae	5. DATE OF DETERMINATION March 1, 1977	FEE RECEIVED	DATE
		\$ 250.00	3-17-78
		\$ 250.00	3-17-78
		\$ 250.00	6-28-78
6. NAME OF APPLICANT(S) Coker's Pedigreed Seed Co.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box 340 Hartsville, S.C. 29550	8. TELEPHONE AREA CODE AND NUMBER 803-332-8154	
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 South Carolina	11. DATE OF INCORPORATION June 12, 1918

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:  
 Joshua J. Stanton, Jr.  
 Coker's Pedigreed Seed Company  
 P.O. Box 340  
 Hartsville, S.C. 29550

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

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal?  YES  NO

16. The applicant(s) declare(s) 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.

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.

3/14/78  
(DATE)

\_\_\_\_\_  
(DATE)

COKER'S PEDIGREED SEED COMPANY  
 (SIGNATURE OF APPLICANT)  
Robert R. Coker  
 (SIGNATURE OF APPLICANT)  
 ROBERT R. COKER, PRESIDENT

## INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and ~~\$250.00~~<sup>500</sup> fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, 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 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 or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

## 13 A. EXHIBIT A, ORIGIN AND BREEDING HISTORY OF VARIETY

COKER 488 SOYBEANS

7800035

<u>Stage</u>	<u>Year</u>	<u>Gen.</u>	<u>Activity</u>
1	1962		Cross, Coker Hampton 266 x Bragg.
2	1963	F <sub>1</sub>	Plants grown in field.
3	1964	F <sub>2</sub>	Bulk grown in field. One pod per F <sub>2</sub> plant harvested, seed bulked.
4	1965	F <sub>3</sub>	Bulk grown in field. Plant Selections made.
5	1966	F <sub>4</sub>	Progeny rows from selected F <sub>3</sub> plants. Progeny Row no. 141.
6	1967	F <sub>5</sub>	Advanced Progeny no. 16.
7	1968	F <sub>6</sub>	Assigned experimental no. Coker 68-33. Replicated yield trials. Segregating hilum color.
8	1969	F <sub>7</sub>	Replicated yield trials.
9	1970	F <sub>8</sub>	Plant selections for hilum color purification.
10	1971	F <sub>9</sub>	Progeny Row no. 2533.
11	1972	F <sub>10</sub>	Advanced Progeny no. 444.
12	1973	F <sub>11</sub>	Assigned experimental no. Coker 73-410. Replicated yield trials.
13	1974	F <sub>12</sub>	Company yield trials at Hartsville, S.C. and Tifton, Ga.
14	1975	F <sub>13</sub>	Company and public agency testing.
15	1976	F <sub>14</sub>	Breeder seed produced. Company and public agency testing.
16	1977	F <sub>15</sub>	Foundation seed produced. Company and public agency testing.
17	1978	F <sub>16</sub>	Registered and Certified seed sold.

Variants : Occasional (less than .5%) self-brown seed coats.

*AS MANY AS 0.5% BLACK HILUM RFS 5/1/81*

Evidence of Stability : Selected in the F<sub>8</sub> generation, Coker 488 is very stable as seen in progeny row observations.

# 7800035

13B. EXHIBIT B, REVISED, NOVELTY STATEMENT

COKER 488 SOYBEANS

Coker 488 is most similar to Bragg. It differs from Bragg in the following respects. Bragg is in maturity Group VII, and Coker 488 is in maturity Group VIII. Bragg has white flowers, and Coker 488 has purple flowers. Bragg has a black hilum, and Coker 488 has a brown hilum.

## 13 B. EXHIBIT B, NOVELTY STATEMENT

COKER 488 SOYBEANS

7800035

Coker 488 is compared below for 5 characters with 14 other varieties of Group VIII maturity. This list includes all released varieties included in the USDA Regional Uniform Group VIII tests from 1961 through 1977. Coker 488 has the combination of purple flowers, tawny pubescence, tan pod, brown hilum, and resistance to bacterial pustule, making it unique among Group VIII varieties.

<u>Variety</u>	<u>Bacterial Pustule</u>	<u>Hilum Color</u>	<u>Pubescence Color</u>	<u>Flower Color</u>	<u>Pod Color</u>
Coker 488	Res.	Brown	Tawny	Purple	Tan
Coker 338	Res.	Brown	Tawny	White	Brown
Coker Hampton 266-A	Res.	Buff	Gray	Purple	Brown
Coker Hampton 266	Res.	Buff	Gray	Purple	Brown
Coker Hampton	Res.	Black & Buff	Gray	Purple	Brown
Coker 102	Mod. Res.	Buff	Gray	White	Brown
Coker 240	Res.	Black	Tawny	Purple	Tan
Coker 318	Res.	Buff	Gray	White	Brown
Coker Stuart	Res.	Buff	Gray	White	Tan
Hutton	Res.	Black	Tawny	Purple	Tan
Hardee	Res.	Buff	Gray	White	Tan
Improved Pelican	Sus.	Brown	Tawny	Purple	Brown
Bienville	Sus.	Brown	Tawny	Purple	Tan
Cobb	Res.	Buff	Gray	White	Tan

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) <b>Coker's Pedigreed Seed Company</b>	FOR OFFICIAL USE ONLY PVPO NUMBER <b>7800035</b>
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code) <b>P. O. Box 340 Hartsville, S.C. 29550</b>	VARIETY NAME OR TEMPORARY DESIGNATION <b>Coker 488</b>

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

1. SEED SHAPE: <input type="checkbox"/> 1 = SPHERICAL <input checked="" type="checkbox"/> 2 = SPHERICAL FLATTENED <input type="checkbox"/> 3 = ELONGATE <input type="checkbox"/> 4 = OTHER (Specify)	
2. SEED COAT COLOR:    SHADE: <input type="checkbox"/> 1 = YELLOW <input type="checkbox"/> 2 = GREEN <input type="checkbox"/> 3 = BROWN <input type="checkbox"/> 4 = BLACK <input checked="" type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK <input type="checkbox"/> 5 = OTHER (Specify)	
3. SEED COAT LUSTER: <input checked="" type="checkbox"/> 1 = DULL <input type="checkbox"/> 2 = SHINY	4. SEED SIZE: <input type="checkbox"/> 1 <input type="checkbox"/> 5    GRAMS PER 100 SEEDS
5. HILUM COLOR:    SHADE: <input checked="" type="checkbox"/> 1 = BUFF <input type="checkbox"/> 2 = YELLOW <input type="checkbox"/> 3 = BROWN <input type="checkbox"/> 4 = GRAY <input type="checkbox"/> 5 = IMPERFECT BLACK <input type="checkbox"/> 6 = BLACK <input type="checkbox"/> 7 = OTHER (Specify) <input checked="" type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK	
6. COTYLEDON COLOR: <input checked="" type="checkbox"/> 1 = YELLOW <input type="checkbox"/> 2 = GREEN	7. LEAFLET SIZE (See Reverse): <input checked="" type="checkbox"/> 1 = SMALL <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = LARGE
8. LEAFLET SHAPE: <input checked="" type="checkbox"/> 1 = OVATE <input type="checkbox"/> 2 = OBLONG <input type="checkbox"/> 3 = LANCEOLATE <input type="checkbox"/> 4 = ELLIPTICAL <input type="checkbox"/> 5 = OTHER (Specify)	
9. LEAF COLOR (See reverse): <input checked="" type="checkbox"/> 1 = LIGHT GREEN <input type="checkbox"/> 2 = MEDIUM GREEN <input type="checkbox"/> 3 = DARK GREEN	10. FLOWER COLOR: <input checked="" type="checkbox"/> 1 = WHITE <input type="checkbox"/> 2 = PURPLE <input type="checkbox"/> 3 = OTHER (Specify)
11. POD COLOR: <input checked="" type="checkbox"/> 1 = TAN <input type="checkbox"/> 2 = BROWN <input type="checkbox"/> 3 = BLACK	12. POD SET: <input checked="" type="checkbox"/> 1 = SCATTERED <input type="checkbox"/> 2 = CONCENTRATED
13. PLANT PUBESCENCE COLOR:    SHADE: <input checked="" type="checkbox"/> 1 = GRAY <input type="checkbox"/> 2 = BROWN <input type="checkbox"/> 3 = OTHER (Specify) <input checked="" type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK	
14. PLANT TYPES (See Reverse): <input checked="" type="checkbox"/> 1 = SLENDER <input type="checkbox"/> 2 = BUSHY <input type="checkbox"/> 3 = INTERMEDIATE	15. PLANT HABIT: <input checked="" type="checkbox"/> 1 = DETERMINATE <input type="checkbox"/> 2 = INDETERMINATE <input type="checkbox"/> 3 = OTHER (Specify)
16. HYPOCOTYL COLOR: <input checked="" type="checkbox"/> 1 = GREEN <input type="checkbox"/> 2 = PURPLE	17. SEED PROTEIN: <input type="checkbox"/> 1 = A <input type="checkbox"/> 2 = B
18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. 0 9) when days are 9 or less.) <input type="checkbox"/> 7 <input type="checkbox"/> 5	19. MATURITY GROUP: <input checked="" type="checkbox"/> 1 = 00 <input type="checkbox"/> 2 = 0 <input type="checkbox"/> 3 = I <input type="checkbox"/> 4 = II <input type="checkbox"/> 5 = III <input type="checkbox"/> 6 = IV <input type="checkbox"/> 7 = V <input type="checkbox"/> 8 = VI <input type="checkbox"/> 9 = VII <input type="checkbox"/> 10 = VIII
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2) when size is 9 mm. or less.) MM. LENGTH OF SEEDLING    MM. LENGTH OF COTYLEDON    MM. WIDTH OF COTYLEDON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) <input checked="" type="checkbox"/> BACTERIAL PUSTULE <input checked="" type="checkbox"/> SOYBEAN CYST <input type="checkbox"/> 0 DOWNY MILDEW <input checked="" type="checkbox"/> 1 PURPLE STAIN <input type="checkbox"/> 0 POD AND STEM BLIGHT <input checked="" type="checkbox"/> 1 ROOT KNOT <input type="checkbox"/> 0 FROGEYE <input type="checkbox"/> 0 STEM CANKER <input checked="" type="checkbox"/> 1 PHYTO-PHTHORA <input type="checkbox"/> 0 BROWN STEM ROT <input checked="" type="checkbox"/> 2 TARGET SPOT <input type="checkbox"/> 0 BROWN SPOT <input type="checkbox"/> 0 BUD BLIGHT <input checked="" type="checkbox"/> 2 WILDFIRE <input type="checkbox"/> 0 RHIZOCTONIA ROT <input checked="" type="checkbox"/> 2 OTHER (Specify) <u>Powdery mildew</u>	

5

brown hilum. Hilum color is basically the buff genotype of the Hampton 266 parent which is modified by the tawny pubescence gene to give a darker hilum pigmentation. Under some environments, however, hilum color will appear nearly buff.

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) <b>Coker's Pedigreed Seed Company</b>	FOR OFFICIAL USE ONLY
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code) <b>P. O. Box 340 Hartsville, S.C. 29550</b>	PVPO NUMBER <b>7800035</b>
VARIETY NAME OR TEMPORARY DESIGNATION <b>Coker 488</b>	

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

1. SEED SHAPE: <input type="checkbox"/> 1 = SPHERICAL <input checked="" type="checkbox"/> 2 = SPHERICAL FLATTENED <input type="checkbox"/> 3 = ELONGATE <input type="checkbox"/> 4 = OTHER (Specify)	
2. SEED COAT COLOR: <input type="checkbox"/> 1 = YELLOW <input type="checkbox"/> 2 = GREEN <input type="checkbox"/> 3 = BROWN <input type="checkbox"/> 4 = BLACK <input type="checkbox"/> 5 = OTHER (Specify)	SHADE: <input checked="" type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK
3. SEED COAT LUSTER: <input checked="" type="checkbox"/> 1 = DULL <input type="checkbox"/> 2 = SHINY	4. SEED SIZE <input type="checkbox"/> 1 <input type="checkbox"/> 5    GRAMS PER 100 SEEDS
5. HILUM COLOR: <input checked="" type="checkbox"/> 1 = BUFF <input type="checkbox"/> 2 = YELLOW <input type="checkbox"/> 3 = BROWN <input type="checkbox"/> 4 = GRAY <input type="checkbox"/> 5 = IMPERFECT BLACK <input type="checkbox"/> 6 = BLACK <input type="checkbox"/> 7 = OTHER (Specify)	SHADE: <input type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK
6. COTYLEDON COLOR: <input type="checkbox"/> 1 = YELLOW <input type="checkbox"/> 2 = GREEN	7. LEAFLET SIZE (See Reverse): <input checked="" type="checkbox"/> 1 = SMALL <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = LARGE
8. LEAFLET SHAPE: <input checked="" type="checkbox"/> 1 = OVATE <input type="checkbox"/> 2 = OBLONG <input type="checkbox"/> 3 = LANCEOLATE <input type="checkbox"/> 4 = ELLIPTICAL <input type="checkbox"/> 5 = OTHER (Specify)	
9. LEAF COLOR (See reverse): <input checked="" type="checkbox"/> 1 = LIGHT GREEN <input type="checkbox"/> 2 = MEDIUM GREEN <input type="checkbox"/> 3 = DARK GREEN	10. FLOWER COLOR: <input checked="" type="checkbox"/> 1 = WHITE <input type="checkbox"/> 2 = PURPLE <input type="checkbox"/> 3 = OTHER (Specify)
11. POD COLOR: <input type="checkbox"/> 1 = TAN <input type="checkbox"/> 2 = BROWN <input type="checkbox"/> 3 = BLACK	12. POD SET: <input type="checkbox"/> 1 = SCATTERED <input type="checkbox"/> 2 = CONCENTRATED
13. PLANT PUBESCENCE COLOR: <input checked="" type="checkbox"/> 1 = GRAY <input type="checkbox"/> 2 = BROWN <input type="checkbox"/> 3 = OTHER (Specify)	
14. PLANT TYPES (See Reverse): <input checked="" type="checkbox"/> 1 = SLENDER <input type="checkbox"/> 2 = BUSHY <input type="checkbox"/> 3 = INTERMEDIATE	15. PLANT HABIT: <input type="checkbox"/> 1 = DETERMINATE <input type="checkbox"/> 2 = INDETERMINATE <input type="checkbox"/> 3 = OTHER (Specify)
16. HYPOCOTYL COLOR: <input checked="" type="checkbox"/> 1 = GREEN <input type="checkbox"/> 2 = PURPLE	17. SEED PROTEIN: <input type="checkbox"/> 1 = A <input type="checkbox"/> 2 = B
18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. <input type="checkbox"/> <input type="checkbox"/> 9) when days are 9 or less.) <input type="checkbox"/> <input type="checkbox"/> 7 <input type="checkbox"/> <input type="checkbox"/> 5	19. MATURITY GROUP: <input type="checkbox"/> 1 = 00 <input type="checkbox"/> 2 = 0 <input type="checkbox"/> 3 = I <input type="checkbox"/> 4 = II <input type="checkbox"/> 5 = III <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 6 = IV <input type="checkbox"/> 7 = V <input type="checkbox"/> 8 = VI <input type="checkbox"/> 9 = VII <input type="checkbox"/> 10 = VIII
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. <input type="checkbox"/> <input type="checkbox"/> 2) when size is 9 mm. or less.) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MM. LENGTH OF SEEDLING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MM. LENGTH OF COTYLEDON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MM. WIDTH OF COTYLEDON	
21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
<input checked="" type="checkbox"/> BACTERIAL PUSTULE <input type="checkbox"/> SOYBEAN CYST <input type="checkbox"/> DOWNY MILDEW <input type="checkbox"/> PURPLE STAIN <input type="checkbox"/> POD AND STEM BLIGHT <input type="checkbox"/> ROOT KNOT	<input type="checkbox"/> FROGEYE <input type="checkbox"/> STEM CANKER <input type="checkbox"/> PHYTO-PHTHORA <input type="checkbox"/> BROWN STEM ROT <input checked="" type="checkbox"/> TARGET SPOT <input type="checkbox"/> BROWN SPOT
<input type="checkbox"/> BUD BLIGHT <input checked="" type="checkbox"/> WILDFIRE <input type="checkbox"/> RHIZOCTONIA ROT <input checked="" type="checkbox"/> OTHER (Specify) <b>Powdery mildew</b>	<b>5</b>

13 D. EXHIBIT D, ADDITIONAL DESCRIPTION OF VARIETY

COKER 488 SOYBEANS

7800035

Coker 488 after maturity is similar to Bragg in plant type. After maturity, Coker 488 can be distinguished from other tawny pubescent, tan pod varieties such as Bragg, Hutton, Ransom, Lee 68, and Lee 74 by the brown hila of Coker 488, whereas the other foregoing varieties have black hila. Coker 488 has tan pods and tawny pubescence, whereas Coker 338 and Terra-Vig 708 have brown pods and tawny pubescence. Although hilum color intensity sometimes is environmentally influenced, Coker 488 usually has a light brown hilum. Hilum color is basically the buff genotype of the Hampton 266 parent which is modified by the tawny pubescence gene to give a darker hilum pigmentation. Under some environments, however, hilum color will appear nearly buff.

State of New York  
County of New York

TRANSFER OF OWNERSHIP

In consideration of the formation of a research partnership, which is named CR Seeds with its principal offices at 900 Darlington Highway, Hartsville, S.C. 29550, and of which Coker's Pedigreed Seed Company, Hartsville, S.C., is a partner, Coker's Pedigreed Seed Company does hereby convey to CR Seeds, free from all encumbrances, ownership of the following protected varieties:

Wheat Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 68-15	7200014	March 6, 1974
Coker 68-19	7200015	March 6, 1974
Coker 747	76TQ015	September 9, 1978
Coker 762	8000152	December 12, 1981
Coker 797	8000145	December 12, 1981

Oat Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 227	7500007	October 20, 1977
Coker 716	7900003	December 28, 1978
Coker 234	7500008	October 26, 1977
Four Twenty-Two	7700085	April 12, 1979
Big Mac	8200121	August 19, 1982
Mesquite	8200122	August 19, 1982

Soybean Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker-Hampton 266A	7100022	September 6, 1973
Coker 136	7300091	October 18, 1973
Coker 338	7400058	October 29, 1976
Coker 237	7800034	July 13, 1978
Coker 488	7800035	July 13, 1978
Coker 156	7900043	November 27, 1979
Coker 317	8100095	November 19, 1981
Coker 368	8200140	August 31, 1983

COKER'S PEDIGREED SEED CO.

By: E. Joe Dahmer  
E. Joe Dahmer, President

Date: February 29, 1984

Sworn and subscribed to before me this 29<sup>th</sup> day of February, 1984.

Ruth Silber

Notary Public

RUTH SILBER  
NOTARY PUBLIC, State of New York  
No. 31-8994050  
Qualified in New York County  
Commission Expires March 30, 1984

ASSIGNMENT

WHEREAS, CR Seeds, a general partnership having its principal office at 900 Darlington Highway, Hartsville, South Carolina 29550 ("Partnership"), is the owner of the entire right, title and interest to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto;

WHEREAS, the partners of CR Seeds, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS") and Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), are each desirous of acquiring a one-half undivided interest in the varieties and Certificates listed on Appendix A;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, CR Seeds does hereby sell, assign and transfer to RHS a one-half undivided interest in and to the varieties and Certificates and to CPS a one-half undivided interest in and to the varieties and Certificates for each of their use and benefit and for each of their successors and assigns.

IN TESTIMONY THEREOF, CR Seeds intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

CR Seeds

By: E. Joe Dahmer  
President

State of South Carolina )  
County of Darlington ) SS

On this 30th day of December, 1986, before me appeared E. Joe Dahmer of CR Seeds, the person who signed this instrument who acknowledged that he signed it as a free act on behalf of CR Seeds with authority to do so.

Loyd B. Eddat  
Notary Public

My commission expires 4-14-91

APPENDIX A

Soft Red Winter Wheat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 68-15	7200014	Mar. 6, 1974
Coker 68-19	7200015	Mar. 6, 1974
Coker 747	76TQ015	Sept. 9, 1978
Coker 762	8000152	Dec. 12, 1981
Coker 797	8000145	Dec. 12, 1981
Coker 916	8300036	Sept. 27, 1985
Coker 983	8400058 <sup>1</sup>	Feb. 27, 1984 <sup>1</sup>
McNair 701	7200038	Feb. 26, 1974
McNair 4823	7200037	April 8, 1975
RHS 8232	8400136 <sup>1</sup>	July 16, 1984 <sup>1</sup>
9227	8600009 <sup>1</sup>	Oct. 22, 1985 <sup>1</sup>
9323	8600010 <sup>1</sup>	Oct. 22, 1985 <sup>1</sup>

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1. Application number and filing date.

Winter Oat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 227	7500007	Oct. 20, 1977
Coker 716	7900003	Dec. 28, 1978
Coker 820	8400059 <sup>1</sup>	Feb. 28, 1984 <sup>1</sup>
Coker 234	7500008	Oct. 26, 1977
Four Twenty Two	7700085	Apr. 12, 1979
Big Mac	8200121	Aug. 19, 1982
Mesquite	8200122	Aug. 19, 1982

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1. Application number and filing date.

Soybean Varieties

Coker Hampton 266A	7100022	Sept. 6, 1973
Coker 136	7300091	Oct. 18, 1973
Coker 338	7400058	Oct. 29, 1976
Coker 237	7800034	July 13, 1978
Coker 488	7800035	July 13, 1978
Coker 156	7900043	Nov. 27, 1979
Coker 317	8100095	Nov. 19, 1981
Coker 368	8200140	Aug. 31, 1983
Coker 425	8400077	May 31, 1985
Coker 485	8400078	May 31, 1985
Coker 393 (Q327-4270)	8400018	Jan. 25, 1985
Coker 355 (XP5878)	8400019	Jan. 25, 1985
Coker 627	8700001 <sup>1</sup>	Oct. 3, 1986 <sup>1</sup>
Coker 686	Pending <sup>1</sup>	Dec. 19, 1986

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1. Application number and filing date.

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
AP55	8100089	Feb. 18, 1982
AP70	7800081	Feb. 15, 1979
AP71	8100090	Sept. 24, 1981
Lancer	7600044	Sept. 29, 1976
RA-526	7500067	Dec. 12, 1975
RA-604	7900008	Mar. 1, 1975
RA-680	8100097	Apr. 15, 1982
RA-502	8200160	Aug. 31, 1983
RA-606	8200161	Oct. 27, 1983
RA-580	8300075	Apr. 30, 1984
Mitchell	7300054	Oct. 30, 1974
RA-401	7800030	June 22, 1978
RA-601	7800031	June 22, 1978
Mitchell 450	7900046	June 14, 1979
RA-481	8000054	Mar. 26, 1981
RA-402	8000093	July 31, 1981
Mitchell 410	8200162	Oct. 27, 1983
RA-403	8200163	Oct. 27, 1983

<u>Variety Name</u>	<u>Certificate No.</u>	<u>Issue Date</u>
RA-451	8500008 <sup>1</sup>	Oct. 10, 1984 <sup>1</sup>
RA-452	8500009 <sup>1</sup>	Oct. 10, 1984 <sup>1</sup>
RA-405	8500010 <sup>1</sup>	Oct. 10, 1984 <sup>1</sup>
RA-501 A	76TQ006	May 11, 1978
RA-480	7900007	Feb. 15, 1979

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1. Application number and filing date.

ASSIGNMENT

WHEREAS, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS"), is the owner of a one-half undivided interest in and to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto:

WHEREAS, Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), is desirous of acquiring this one-half undivided interest in the aforementioned varieties and Certificates;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, RHS does hereby sell, assign and transfer to CPS RHS's one-half undivided interest in and to the varieties and Certificates for CPS's use and benefit and for its successors and assigns.

IN TESTIMONY THEREOF, RHS intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

ROHM AND HAAS SEEDS INC.

By: Howard A. Mergelkamp  
Assistant Treasurer

State of Pennsylvania )  
County of Philadelphia ) SS

On this 31<sup>st</sup> day of December, 1986, before me appeared Howard A. Mergelkamp of Rohm and Haas Seeds Inc., the person who signed this instrument who acknowledged that he signed it as a free act on behalf of Rohm and Haas Seeds Inc. with authority to do so.

Elizabeth A. Smith  
ELIZABETH A. SMITH, Notary Public  
Notary Public, Phila. Phila. Co.  
My Commission Expires Oct. 74, 1989

My commission expires \_\_\_\_\_.

7800035

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, COKER'S PEDIGREED SEED COMPANY, a South Carolina corporation ("Coker's"), having its offices at 900 Darlington Highway, Hartsville, South Carolina 29550, has adopted and used and is the sole and exclusive owner of certain United States Plant Variety Protection Certificates and similar rights under laws of countries other than the United States as listed in Exhibit A hereto:

WHEREAS, COKER'S PEDIGREED SEED CO. and NORTHRUP KING CO., a Delaware corporation ("NK"), have entered into an Asset Purchase Agreement, dated July 20, 1988, providing for the purchase and sale of substantially all of the assets and business of Coker's and the assumption of certain of Coker's liabilities and obligations by NK; and

WHEREAS, NK desires to acquire the right, title and interest in, to and under the Plant Variety Protection Certificates listed on Exhibit A hereto and the pending applications hereto (collectively, the "Plant Variety Protection Certificates").



**EXHIBIT A**

**Plant Variety Protection Certificates (Section 5.15(a)(ii)):**

**Soybean Varieties**

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate Number</u>	<u>Issue Date</u>	<u>Term (Yrs.)</u>
Coker Hampton 266A	7100022	Sept. 6, 1973	17
Coker 136	7300091	Oct. 18, 1973	17
Coker 338	7400058	Oct. 29, 1976	17
Coker 237	7800034	July 13, 1978	17
Coker 488	7800035	July 13, 1978	17
Coker 156	7900043	Nov. 27, 1979	17
Coker 317	8100095	Nov. 19, 1981	18
Coker 368	8200140	Aug. 31, 1983	18
Coker 425	8400077	May 31, 1985	18
Coker 485	8400078	May 31, 1985	18
Coker 393	8400018	Jan. 25, 1985	18
Coker 355 (XP5878)	8400019	Jan. 25, 1985	18
Coker 627	8700001	May 29, 1987	18
Coker 686	8700035	May 29, 1987	18
6738	8700158	March 31, 1988	18
6727	8700157	Sept. 30, 1987	18
6847	8800127 <sup>(1)</sup>	April 13, 1988 <sup>(1)</sup>	-

(1) Application number and filing date.