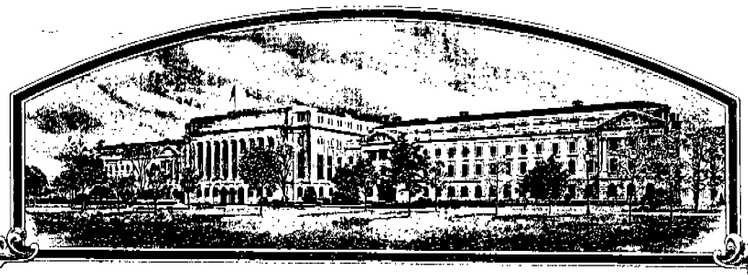

No. 7500007

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 IETY 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 OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SP BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

OATS

'Coker 227'

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* 20th *day of* October *in the year of our Lord one thousand nine hundred and* seventy-seven

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

FORM GR-470
(12-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION Coker 227	2. KIND NAME Oats	FOR OFFICIAL USE ONLY PV NUMBER 7500007
3. GENUS AND SPECIES NAME Avena sativa L.	4. FAMILY NAME *(Botanical)* Gramineae	FILING DATE 8·7·74 / TIME 11:30 A.M.
	5. DATE OF DETERMINATION May , 1972	FEE RECEIVED $250·00 / BALANCE DUE $ —
		$250·00 / $2-2-77
		$250.00 / $ —
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, South Carolina 29550	8. TELEPHONE AREA CODE AND NUMBER (803) 332 7531
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* Corporation	10. STATE 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:

S.P. Coker Jr. Vice-President
Howard F. Harrison Director Grain Division
Coker's Pedigreed Seed Company
P.O. Box 340
Hartsville, South Carolina

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

[X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*

[X] 13B. Exhibit B, Botanical Description of the Variety

[X] 13C. Exhibit C, Objective Description of the Variety

[X] 13D. Exhibit D, Data Indicative of Novelty

[X] 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

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.)* [X] YES [ ] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [X] YES [ ] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? [X] FOUNDATION [X] REGISTERED [X] CERTIFIED

The applicant declares 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) of this sexually-reproduced novel plant variety believes 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 is informed that false representation herein can jeopardize protection and result in penalties.

Aug 5 1974 (DATE) — S Crosby Coker Jr V. Pres. (SIGNATURE OF APPLICANT)

Aug 5, 1974 (DATE) — Howard F. Harrison (SIGNATURE OF APPLICANT)

00001

Coker 227

EXHIBIT A

Origin and Breeding History of the variety

1967 Growth Chamber-Cross Suregrain x P.I. 287211, Avena Sterilis. F_1 plants tested for crown rust resistance.
1968 Growth Chamber-Cross F_1 above to Coker 68-26.
1968 Backcross F_1 above to Coker 68-26.
1968 BC 2.
1968 BC 3.
1969 Growth Chamber-Cross Coker 68-23 to Coker $68\text{-}26^4$ x Sg. x P.I. 287211.
1969 F_2 plants tested for rust resistance.
1969 F_3 Plant rows grown in Idaho.
1970 F_4 spaced plants selected for type and disease resistance.
1970 F_5 rows from single F_4 plants grown in Idaho.
1971 Variety Trials.
1972 1/2 Acre increase in South Carolina, variety trials.
1972 10 Acre increase in Idaho, variety trials.
1973 Increase in Arkansas.

Pure line selection was based on uniformity of appearance, reaction to disease, among at least 100 panicle rows during each year of increase. Peformance Data are presented on copies of summary tables of UNIFORM SOUTHERN WINTER OAT NURSERY for 1973 and 1975, and a copy of complete report of UNIFORM CENTRAL WINTER OAT NURSERY for 1974. Observation of the 100 panicle rows during increase demonstrated stability for varietal characters.

Approximately 2% of seedlings show a moderately susceptible reaction to the race mixture used in selection.

3/1/77

Coker 227

EXHIBIT B

Botanical Description of the Variety

Coker 227 is a medium tall oat with a semi-decumbent growth habit, more nearly decumbent than Coker 234. Leaves are midwide, midlong, medium green, glabrous on dorsal and ventral surfaces and sheath. Marginal hairs sparse to wanting. Ligule present.

Stems are midtall, midthick, yellow at maturity. Upper stem nodes only slightly hirsute. Internodes hollow. Tillering profuse under winter conditions.

Panicles are midlong, midbroad, equilateral, with branches slightly spreading. Exertion from flag leaf rather short seldom exceeding 100 mm to first panicle node. Number of panicle nodes usually seven.

Glumes are rather dark green, darker than Coker 234, with waxy bloom, somewhat flexuous and showy at maturity. Average length is 26 mm and width is 6 mm.

Kernels are midlong, midbroad. Lemma is greyed-orange, approximating R.H.S. chart 165C with varying interveinal grey tinge. Spikelet separation is by semiabscission, floret disjunction by heterofracture. Awns are sparse and weak, not twisted or geniculate, seldom exceeding 30 mm long.

Coker 227 has medium strong straw, is more winterhardy than Coker 234. It is resistant to crown rust races 202, 203, 216, 264, 264B, 294, 325, and 326. It is also resistant to culm rot, (H. sativum), Victoria blight, (H. Victoreae). It is intermediate in reaction to soil-borne mosaic, (Marmor Terrestre), and fairly tolerant to BYDV. It is susceptible to some races of stem rust (P. graminis avenae) and loose smut (Ustilago Avenae) .

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and $250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (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 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.

13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.

13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.

13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.

13e Indicate whether applicant is the actual breeder the employer of the breeder, the owner through purchase or inheritance, etc.

FORM APPROVED: OMB NO. 40-R3712

FORM GR-470-35
(1-76)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY
OAT
(Avena spp.)

NAME OF APPLICANT(S)	VARIETY NAME OR TEMPORARY DESIGNATION
Coker's Pedigreed Seed Co.	Coker 227
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
P.O. Box 340 Hartsville, S.C. 29550	PVPO NUMBER 7500007

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less.

1. SPECIES:

[1] 1 = SATIVA 2 = BYZANTINA 3 = OTHER (Specify)_____

2. GROWTH HABIT:

[2] 1 = WINTER 2 = SEMIWINTER 3 = SPRING

[2] JUVENILE GROWTH: 1 = PROSTRATE 2 = SEMIPROSTRATE 3 = ERECT

STANDARD VARIETIES

1 = JAYCEE 2 = CLINTLAND 64 3 = CAYUSE 4 = NORLINE 5 = YANCEY 6 = FLORIDA 501

3. MATURITY (50% flowering):

[ ][ ] DAYS EARLIER THAN..... [ ] STANDARD VARIETY [0][4] DAYS LATER THAN..... [6] STANDARD VARIETY

[3] Season: 1 = VERY EARLY (Jaycee) 2 = EARLY (Nodaway 70) 3 = MIDSEASON (Clintford)
4 = LATE (Lodi) 5 = VERY LATE (Garry) 6 = EXTREMELY LATE (Mackinaw)

4. PLANT HEIGHT (From soil level to top of head):

[1][0][2] CM. TALL

[ ][ ] CM. SHORTER THAN .... [ ] STANDARD VARIETY
[0][4] CM. TALLER THAN ..... [6] STANDARD VARIETY

5. STEM:

[2] DIAMETER: 1 = FINE (Kherson) 2 = MEDIUM (Clintford) 3 = COARSE (Nodaway 70)

[2] HAIRINESS AT UPPER CULM NODES: 1 = HAIRLESS 2 = HAIRY

[1] MATURE STEM COLOR: 1 = YELLOW 2 = REDDISH

6. LEAF: (Leaf Color: The Royal Horticultural Society's or any recognized color chart should be used to determine the leaf color of the described variety.)

[1] CARRIAGE: 1 = DROOPING (Random) 2 = ERECT (Walken)

3/1/77 [3] COLOR: 1 = YELLOW GREEN 2 = LT. GREEN 3 = DK. GREEN 4 = BLUE GREEN

[1][3] MM. WIDTH (First leaf below flag leaf) [1] LEAF MARGIN: 1 = GLABROUS 2 = CILIATE

[2] LIGULE: 1 = ABSENT 2 = PRESENT [1] LEAF SHEATH: 1 = HAIRLESS 2 = HAIRY

7. HEAD:

[1] PANICLE SHAPE: 1 = EQUILATERAL 2 = INTERMEDIATE 3 = SIDE PANICLE (Unilateral)

[1] ATTACHMENT OF LOWER WHORL OF BRANCHES: 1 = FIRST NODE 2 = SECOND NODE (False node)

[2] PANICLE SIZE: 1 = SMALL (Yancey) 2 = MEDIUM (Walken) 3 = LARGE (Markton)

[2] PANICLE WIDTH: 1 = NARROW (Gopher) 2 = MIDBROAD (Yancey) 3 = BROAD (Nodaway 70)

3/1/77 [2][4] CM. PANICLE LENGTH [0][2] NUMBER OF BRANCHES 3/1/77 [0][7] NUMBER OF WHORLS OF BRANCHES

[2] POSITION OF BRANCHES: 1 = ASCENDING (Yancey) 2 = SPREADING (Cayuse) 3 = DROOPING (Markton)
4 = PECTINATE (White Tartar) 5 = CONFUSED (Storm King)

Coker 227

EXHIBIT D

Data Indicative of Novelty

Novelty is based on the unique combination of the following characteristics:

Coker 227 most closely resembles its sister line, Coker 234 but differs in the following respects:

	Coker 227	Coker 234
Glume Length	26 mm	23 mm
Glume Width	6 mm	5 mm
Mature Lemma Color	R.H.S. Chart 165C	R.H.S. Chart 164B
Growth Habit*	3.0	5.0

*Scale: 1=Prostrate
10=Upright

COKER 227

EXHIBIT E

STATEMENT OF APPLICANT'S OWNERSHIP

All crossing, selection and increase of this variety were performed by employees of Coker's Pedigreed Seed Company whose sole function is developing and marketing crop varieties. Therefore, Coker's Pedigreed Seed Company believes it is the sole, original, and first breeder of Coker 227 oats for which it solicits a certificate of protection.

State of New York
County of New York } ss.

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

Variety Name	Plant Variety Certificate No.	Issue Date
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

Variety Name	Plant Variety Certificate No.	Issue Date
✓ 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
X Big Mac	X 8200121	August 19, 1982
Mesquite	8200122	August 19, 1982

Soybean Varieties

Variety Name	Plant Variety Certificate No.	Issue Date
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	7900035	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 29th day of February, 1984.

Ruth Silber
Notary Public ~~for South Carolina~~

~~(My commission expires March 30, 1984)~~

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

FORM 470-35 (REVERSE)

8. RACHIS:

[1] 1 = RECURVED (Yancey) 2 = ERECT (Walken)

[1 5] MM. SECOND FLORET RACHILLA SEGMENT LENGTH

[2] SECOND FLORET RACHILLA SEGMENT: 1 = HAIRLESS 2 = HAIRY

[1] RACHILLA HAIRS: 1 = SHORT 2 = LONG

9. SPIKELET:

[2] SPIKELET SEPARATION BY: 1 = ABSCISSION 2 = SEMIABSCISSION 3 = FRACTURE

[2] FLORET SEPARATION BY: 1 = DISARTICULATION 2 = HETEROFRACTURE 3 = BASIFRACTURE

[2 0] FLORETS PER SPIKELET (mean no.)

10. GLUMES: (Glume Color: The Royal Horticultural Society's or any recognized color chart should be used to determine the color of the described variety.)

[0 8] MM. WIDTH [2 6] MM. LENGTH [1 1] NO. OF VEINS ON GLUMES [2] COLOR: 1 = WHITE 2 = YELLOW 3 = RED 4 = STRIPED

R.H.S. Chart 164C

11. LEMMA: (Lemma Color: The Royal Horticultural Society's or any recognized color chart should be used to determine the color of the described variety.)

[1 7] MM. LENGTH [3] COLOR: 1 = WHITE 2 = YELLOW 3 = RED 4 = GRAY 5 = BLACK

[1] HAIRINESS OF DORSAL SURFACE: 1 = HAIRLESS 2 = HAIRY

R.H.S. Chart 165C

12. AWN (First floret):

[2] OCCURENCE: 1 = ABSENT (Walken) 2 = INFREQUENT (Yancey) 3 = COMMON (Chilocco) 4 = FREQUENT (Random)

[1] TYPE: 1 = NON-TWISTED 2 = TWISTED 3 = TWISTED GENICULATE

[2 5] MM. AWN LENGTH

13. SEED:

[0] FLORESCENCE UNDER ULTRAVIOLET LIGHT: 1 = FLORESCENT 2 = NON-FLORESCENT

[2] BASAL HAIR: 1 = ABSENT (Florida 501) 2 = ABSENT TO FEW (Yancey) 3 = FEW TO SEVERAL (Lee) 4 = SEVERAL TO NUMEROUS (Florilee) 5 = NUMEROUS (Red Rustproof)

[2 0] MM. BASAL HAIR LENGTH

[3 5 0] GMS. PER 1,000 SEEDS [3 3] MG. GROAT WEIGHT (each)

[1 9 3] % GROAT PROTEIN [0 7 5] % GROAT OIL

14. INSECTS: (0 = NOT TESTED, 1 = SUSCEPTIBLE, 2 = RESISTANT)

[0] CEREAL LEAF BEETLE [0] BLUEGRASS BILLBUG [0] GRAIN BUG (C. Sayi) [0] NEMATODE (Type) _____

[0] GREEN BUG (Biotype) _____ OTHER *(Specify)* _____

15. DISEASE: (0 = NOT TESTED, 1 = SUSCEPTIBLE, 2 = RESISTANT)

[0] HALO BLIGHT [0] POWDERY MILDEW [0] SEPTORIA LEAF BLOTCH [1] SOIL-BORNE MOSIAC

[0] HELMINTHOSPORIUM LEAF BLOTCH [0] YELLOW DWARF VIRUS [2] VICTORIA BLIGHT [2] OTHER *(Specify)* Culm Rot-(H. sativum)

SPECIFY RACES TESTED:

		RACES SUSCEPTIBLE	RACES RESISTANT
2	CROWN RUST.....	None Known	202,203,216,264,294,325,326
1	STEM RUST.....		None Known
0	COVERED SMUT.....		
1	LOOSE SMUT.....		

16. INDICATE VARIETY YOU BELIEVE MOST CLOSELY TO RESEMBLE THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
PLANT TILLERING	Nora	LEAF COLOR	Nora
LEAF SIZE	Nora	LEAF CARRIAGE	Nora
SEED COLOR	Nora	SEED SHAPE	Fla. 501

COMMENTS:

ASSIGNMENT

WHEREAS, CR Seeds, a general partnership having it 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 varieies 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)
)SS
County of Darlington)

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.

Notary Public

My commission expires 4-14-91.

APPENDIX A

Soft Red Winter Wheat Varieties

Variety Name	U.S. Plant Variety Certificate No.	Issue Date
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[1]	Feb. 27, 1984[1]
McNair 701	7200038	Feb. 26, 1974
McNair 4823	7200037	April 8, 1975
RHS 8232	8400136[1]	July 16, 1984[1]
9227	8600009[1]	Oct. 22, 1985[1]
9323	8600010[1]	Oct. 22, 1985[1]

1. Application number and filing date.

Winter Oat Varieties

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

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[1]	Oct. 3, 1986[1]
Coker 686	Pending[1]	Dec. 19, 1986

1. Application number and filing date.

Variety Name	U.S. Plant Variety Certificate No.	Issue Date
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

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

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)
)SS
County of Philadelphia)

On this 31st 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
Notary Public

ELIZABETH A. SMITH
Notary Public, Phila., Phila. Co.
My Commission Expires Oct. 14, 1989

My commission expires _____.

7500007

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").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Coker's hereby sells, assigns, transfers and sets over to NK the Plant Variety Protection Certificates. Coker's further agrees, at no cost to it, to execute and deliver to NK, upon the request of NK, any further instrument of assignment that may be necessary to effectuate the transfer of each Plant Variety Protection Certificate.

IN WITNESS WHEREOF, Coker's has caused this instrument to be executed by its duly authorized representative as of the 20th day of July, 1988.

COKER'S PEDIGREED SEED COMPANY

By: _____
E. Joe Dahmer
President

STATE OF MINNESOTA)
) ss:
COUNTY OF HENNEPIN)

On this 20th day of July, 1988, before me, a Notary Public in and for the County aforesaid, the undersigned officer, E. Joe Dahmer, personally appeared and acknowledged himself to be the President of Coker's Pedigreed Seed Co., and that he executed the foregoing instrument for the purposes therein.

WITNESS my hand and seal this 20th day of July, 1988.

TIMOTHY M. BANGASSER
NOTARY PUBLIC — MINNESOTA
HENNEPIN COUNTY
My Commission Expires May 22 1992

_____
Notary Public

Winter Oat Varieties

Variety Name	U.S. Plant Variety Certificate Number	Issue Date	Term (Yrs.)
Coker 227	7500007	Oct. 20, 1977	17
Coker 716	7900003	Dec. 28, 1978	17
Coker 820	8400059	June 30, 1987	18
Coker 234	7500008	Oct. 26, 1977	17
Four Twenty Two	7700085	Apr. 12, 1979	17
Big Mac	8200121	Aug. 19, 1982	18
Mesquite	8200122	Aug. 19, 1982	18

Tobacco Varieties

Coker 347	72022	Oct. 27, 1976	17
Coker 411	72023	Oct. 27, 1976	17
Coker 86	7600004	Oct. 27, 1976	17
Coker 48	7800008	Sept. 20, 1978	17
Coker 51	8100048	Feb. 18, 1982	18
Coker 176	8300056	Sept. 29, 1983	18
Coker 206	8500040	Apr. 30, 1986	18
Coker 371 Gold	8700049	Sept. 30, 1987	18

Cotton Varieties

Coker 310	7100021	Jan. 18, 1974	17
Coker 304	7700024	Dec. 21, 1978	17
Coker 420	7900087	Jan. 29, 1980	17
Coker 315	8000087	Dec. 18, 1980	17