

No.

780008



# 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, OR 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. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS 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.)

TOBACCO

'Coker 48'

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 September in the year of our Lord one thousand nine hundred and seventy-eight

Attest:

Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

Secretary of Agriculture



**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME Coker 48	FOR OFFICIAL USE ONLY	
		PV NUMBER 7800008	
2. KIND NAME Tobacco	3. GENUS AND SPECIES NAME Nicotiana tabacum	FILING DATE 12-5-77	TIME 11:30 <b>A.M.</b>
		FEE RECEIVED \$ 250.00	DATE 12-5-77
4. FAMILY NAME (BOTANICAL) Solanaceae	5. DATE OF DETERMINATION Dec. 8, 1976	\$ 250.00	12-5-77
		\$ 250.00	12-5-77
		\$ 250.00	8-21-78
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, South Carolina 29550	8. TELEPHONE AREA CODE AND NUMBER 803-332-8151	
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:

Dr. Carol R. Miller  
Coker's Pedigreed Seed Co.  
P. O. Box 340  
Hartsville, South Carolina 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.

Nov. 11, 1977  
(DATE)

Carol R. Miller  
(SIGNATURE OF APPLICANT)

1

(DATE)

(SIGNATURE OF APPLICANT)

## INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and <sup>500</sup>~~\$250.00~~ 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.)

## Exhibit A

## Origin and Breeding History of Coker 48

Year	
1966	Coker 258 was crossed with Coker 319. (C-258 X C-319)
1966-67	F <sub>1</sub> plants grown in Florida winter breeding nursery and a selected plant was back-crossed with Coker 319. (C-258xC-319) X C-319
1967	F <sub>1</sub> plants grown in summer breeding nurseries and selection #67-394-4S was advanced to 1968 tests.
1968	F <sub>2</sub> progeny row reselected in summer breeding nurseries and selection #68-358-1S was advanced to 1969 tests.
1969	F <sub>3</sub> progeny row reselected in summer breeding nurseries and selection #69-272-1S was advanced to 1970 tests.
1970	F <sub>4</sub> progeny row reselected in summer breeding nurseries and selection # 70-172-1S was advanced to 1971 tests.
1971	F <sub>5</sub> progeny row reselected in summer breeding nurseries and selection # 71-84-2C was advanced to 1972 tests.
1972	F <sub>6</sub> progeny row reselected in summer breeding nurseries and selection # 72-191-3S was advanced to 1973 tests.
1973	F <sub>7</sub> progeny row reselected in summer breeding nurseries and progeny row # 73-48E was advanced to 1974 tests.
1974	F <sub>8</sub> progeny rows tested in Coker's Pedigreed Seed Company Advanced Strains-Variety Test and Regional Small Plot Tests as Coker 73-48E.
1975	F <sub>9</sub> progeny rows were tested in Coker's Pedigreed Seed Company Advanced Strains-Variety Tests and Regional Farm Tests.
1976	F <sub>10</sub> progeny rows were tested in Coker's Pedigreed Seed Company Advanced Strains-Variety Test and Regional Farm Tests and it was determined that Coker 48 was a stable line that met the minimum standards as established by the Variety Evaluation Committee of the Tobacco Workers Conference.
1977	Seed increases were made from bulked seed of a selected F <sub>10</sub> progeny row and the resulting F <sub>11</sub> seed were harvested.

Throughout the development of Coker 48, each generation of each progeny row was grown from seed of an individual plant selection.

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The breeding nurseries in which this variety was produced are severely infested with either the blackshank, Granville (bacterial) Wilt, and/or root knot organisms. Leaves were harvested, identified, cured, and graded, and chemically analyzed from every progeny row throughout the entire development period.

Variants: No variants have been observed throughout the regional testing and increase period.

Evidence of Stability: Coker 48 has remained phenotypically stable throughout its advanced testing and increase period. Progeny rows from the variety are of the same phenotype, maturity, height, yield and quality, and exhibit the same disease resistance reactions.

Exhibit B. Novelty Statement

Summary Novelty Statement: Coker 48 most closely resembles Coker 258 in both leaf size and shape, and particularly in the puckered leaf texture. Coker 48 differs most obviously from Coker 258 by the fact that Coker 48 is susceptible to the root-knot nematode Meloidogyne incognita (a simply inherited characteristic) whereas Coker 258 is resistant.

Two other varieties, Coker 86 and NC 95, resemble Coker 258 in that both have a puckered leaf texture but both of these varieties are also resistant to the root-knot nematode Meloidogyne incognita.

x including (phone call to Dr. Miller 7/28/78 0855)

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
**OBJECTIVE DESCRIPTION OF VARIETY**  
Tobacco (*Nicotiana tabacum*)

NAME OF APPLICANT(S) <b>Coker's Pedigreed Seed Company</b>	VARIETY NAME OR TEMPORARY DESIGNINATION <b>Coker 48</b>
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) <b>P. O. Box 340 Hartsville, South Carolina 29550</b>	FOR OFFICIAL USE ONLY PVPO NUMBER <b>7800008</b>

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. CLASS:**

<input checked="" type="checkbox"/> 1 = FLUE-CURED	<input type="checkbox"/> 2 = FIRE-CURED	<input type="checkbox"/> 3 = AIR-CURED	<input type="checkbox"/> 4 = CIGAR FILLER	<input type="checkbox"/> 5 = CIGAR BINDER	<input type="checkbox"/> 6 = CIGAR WRAPPER
<input type="checkbox"/> 7 = MISCELLANEOUS-DOMESTIC	<input type="checkbox"/> 8 = FOREIGN-CIGAR LEAF	<input type="checkbox"/> 9 = FOREIGN-NON-CIGAR LEAF			

AIR-CURED:      1 = BURLEY      2 = MARYLAND      3 = DARK AIR-CURED

**STANDARD VARIETIES**

01 = NC 95	02 = NC 2326	03 = COKER 319	04 = HICKS	05 = SPEIGHT G-28	06 = SC 58
07 = Ky 151	08 = BURLEY 21	09 = BURLEY 49	10 = Ky 10	11 = MARYLAND 609	12 = Ky 165
13 = Pennbel 69	14 = HAVANA 503	15 = FLORIDA 17	16 = OTHER <b>Coker 86</b>		

**2. MATURITY (Transplant to 50% plants 1 Fl.) (Select code from Standard Varieties listed above)**

<input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="6"/> NO. OF DAYS	<input type="text" value="0"/> <input type="text" value="1"/> DAYS EARLIER THAN ...	<input type="text" value="1"/> <input type="text" value="6"/>
	<input type="text" value="0"/> <input type="text" value="2"/> DAYS LATER THAN ...	<input type="text" value="0"/> <input type="text" value="3"/>

**3. SEEDING TO TRANSPLANTING (Select code from Standard Varieties listed above)**

<input type="text" value=""/> <input type="text" value=""/> NO. OF DAYS	<input type="text" value=""/> <input type="text" value=""/> DAYS EARLIER THAN ...	<input type="text" value=""/> <input type="text" value=""/>
	<input type="text" value=""/> <input type="text" value=""/> DAYS LATER THAN ...	<input type="text" value=""/> <input type="text" value=""/>

**4. PLANT HEIGHT (After topping) (Select code from Standard Varieties listed above)**

<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="1"/> CM TALL	<input type="text" value="0"/> <input type="text" value="3"/> CM SHORTER THAN ...	<input type="text" value="1"/> <input type="text" value="6"/>
	<input type="text" value="0"/> <input type="text" value="5"/> CM TALLER THAN ...	<input type="text" value="0"/> <input type="text" value="3"/>

**5. LEAF SIZE (At leaf maturity) (Select code from Standard Varieties listed above)**

<b>LENGTH</b>	<input type="text" value="6"/> <input type="text" value="4"/> <input type="text" value="1"/> CM 5TH LEAF	<input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="8"/> CM <del>10th</del> <sup>8th</sup> LEAF	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> CM 15TH LEAF
	<input type="text" value="3"/> <input type="text" value="8"/> CM SHORTER THAN ...	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="9"/> CM SHORTER THAN ...	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value=""/> <input type="text" value=""/> CM SHORTER THAN ...
	<input type="text" value="0"/> <input type="text" value="9"/> CM LONGER THAN ...	<input type="text" value="1"/> <input type="text" value="6"/> <input type="text" value="0"/> <input type="text" value="3"/> CM LONGER THAN ...	<input type="text" value="1"/> <input type="text" value="6"/> <input type="text" value=""/> <input type="text" value=""/> CM LONGER THAN ...
<b>WIDTH</b>	<input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="5"/> CM 5TH LEAF	<input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="8"/> CM <del>10th</del> <sup>8th</sup> LEAF	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> CM 15TH LEAF
	<input type="text" value="3"/> <input type="text" value="2"/> CM NARROWER THAN ...	<input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="6"/> CM NARROWER THAN ...	<input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value=""/> <input type="text" value=""/> CM NARROWER THAN ...
	<input type="text" value="1"/> <input type="text" value="5"/> CM WIDER THAN ...	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="0"/> <input type="text" value="5"/> CM WIDER THAN ...	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value=""/> <input type="text" value=""/> CM WIDER THAN ...

**6. LEAF YIELD (Select code from Standard Varieties listed above)**

<input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="1"/> <input type="text" value="8"/> KG/HA	<input type="text" value="0"/> <input type="text" value="4"/> % LESS THAN ...	<input type="text" value="1"/> <input type="text" value="6"/> <input type="text" value="1"/> <input type="text" value="7"/> % MORE THAN ...	<input type="text" value="0"/> <input type="text" value="3"/>
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13. DISEASE (0 = Not tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> 1	POTATO VIRUS Y	<input type="checkbox"/> 1	TMV
<input type="checkbox"/> 0	NEMATODE ROOT ROT (LESION, SPECIES) _____	<input type="checkbox"/> 1	ROOT KNOT NEMATODE
<input type="checkbox"/> 1	TOBACCO ETCH VIRUS	<input type="checkbox"/> 2	OZONE AIR POLLUTION
<input type="checkbox"/>	OTHER (Specify) _____	<input type="checkbox"/>	OTHER (Specify) _____

NOTE: Under 16 "Comments", give comparative reaction with a standard variety appropriate for each disease tested and indicate if disease reaction of the variety exceeds, equals or is less than that of the standard).

14. LEAF CONSTITUENTS (Give data for described and standard variety):

VARIETY	NICOTINE %	NOR NICOTINE %	TOTAL NITROGEN %	REDUCING SUGARS % (FLUE-CURED)
SUBMITTED	<input type="checkbox"/> 3 <input type="checkbox"/> 7 <input type="checkbox"/> 0	<input type="checkbox"/> 2 <input type="checkbox"/> 2	<input type="checkbox"/> 2 <input type="checkbox"/> 5 <input type="checkbox"/> 4	<input type="checkbox"/> 1 <input type="checkbox"/> 4 <input type="checkbox"/> 1 <input type="checkbox"/> 0
STANDARD	<input type="checkbox"/> 3 <input type="checkbox"/> 8 <input type="checkbox"/> 8	<input type="checkbox"/> 2 <input type="checkbox"/> 4	<input type="checkbox"/> 2 <input type="checkbox"/> 5 <input type="checkbox"/> 8	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 8 <input type="checkbox"/> 0
NAME OF STANDARD VARIETY	NC 95	NC 95	NC 95	NC 95

15. VARIETIES MOST CLOSELY RESEMBLING THAT DESCRIBED FOR THE CHARACTERS GIVEN:

CHARACTER	VARIETY	CHARACTER	VARIETY
MATURITY	Coker 319	LEAF TIP SHAPE	Coker 258
LEAF LENGTH	Coker 258	VENATION PATTERN	Coker 258
LEAF WIDTH	Coker 258	LEAF SURFACE	Coker 258
LEAF CARRIAGE	Coker 258	LEAF MARGIN	Coker 258
PETIOLE ANGLE	Coker 258	LEAF COLOR	Coker 258
LEAF SHAPE	Coker 258	PLANT FORM	Coker 258

16. COMMENTS (For increasing accuracy of description)

Statement of Basis of Applicant's Ownership  
of Coker 48 Tobacco

Coker 48 is owned by Coker's Pedigreed Seed Company. All breeding, development and testing (other than that performed by the Variety Evaluation Committee of the Tobacco Workers Conference) was done on land owned and/or operated by Coker's Pedigreed Seed Company and under the direct supervision of personnel of the Tobacco Division of Coker's Pedigreed Seed Company. All seed were also produced on land owned and/or operated by Coker's Pedigreed Seed Company under supervised personnel of the Tobacco Division, and inspected and approved by the South Carolina Department of Seed Certification.

*Nov. 11, 1977*

*Carroll B. Miller*  
*Director, Tobacco Division*

GROUPING:

STANDARD VARIETIES

- |                 |                 |                 |            |                   |             |
|-----------------|-----------------|-----------------|------------|-------------------|-------------|
| 01 = NC 95      | 02 = NC 2326    | 03 = COKER 319  | 04 = HICKS | 05 = SPEIGHT G-28 | 06 = SC 58  |
| 07 = Ky 151     | 08 = BURLEY 21  | 09 = BURLEY 49  | 10 = Ky 10 | 11 = MARYLAND 609 | 12 = Ky 165 |
| 13 = Pennbel 68 | 14 = HAVANA 503 | 15 = FLORIDA 17 | 16 = OTHER |                   |             |

7. LEAF NUMBER (Select code from Standard Varieties listed above)

TOPPED NORMAL:

NO. PER PLANT

NO. OF LEAVES > 40.6 CM

CM HEIGHT OF LAST LEAF > 40.6 CM

NOT TOPPED:

NO. OF LEAVES OR NODES TO "CROWFOOD" FROM 1ST HARVESTABLE LEAF

8. INTERNODES (Topped) (Select code from Standard Varieties listed above)

MM LENGTH

MM SHORTER THAN .....

MM LONGER THAN .....

9. LEAF CHARACTERISTICS:

PETIOLE ANGLE:

DEGREES

GROUPING: 1 = < 35° 2 = 35-45° 3 = 46-65° 4 = > 65°

LEAF CARRIAGE

1 = ARCHED (DROOPING) 2 = HORIZONTAL  
3 = UPRIGHT

LEAF COLOR (At topping or when 50% of plants with 1 flower)

1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN  
4 = YELLOW-GREEN 5 = YELLOW

LEAF SHAPE:

1 = BROADER THAN LONG 2 = LENGTH EQUALS WIDTH  
3 = LONGER THAN BROAD

1 = BROADEST AT MIDDLE 2 = BELOW MIDDLE  
3 = ABOVE MIDDLE

TIP SHAPE

1 = ACUTE 2 = ACUMINATE 3 = OBTUSE

VENATION PATTERN:

1 = SQUARE 2 = ANGULAR

LEAF SURFACE

1 = SMOOTH (HICKS) 2 = PUCKERED (NC 95)

LEAF MARGIN

1 = WAVY 2 = NOT WAVY  1 = RECURVED  
2 = NOT RECURVED

10. FLOWERS:

COLOR: 1 = WHITE 2 = PINK  
3 = RED 4 = OTHER

FLOWER HEAD HABIT:

1 = CLOSED (NC 95) 2 = INTERMEDIATE  
3 = OPEN (HICKS)

11. PLANT FORM

1 = PYRAMIDAL 2 = COLUMNAR 3 = OTHER (Specify) Intermediate

12. GROUND SUCKERS:

NO. PER PLANT

13. DISEASE (0 = Not tested, 1 = Susceptible, 2 = Resistant)

BLACK SHANK (RACES) Common

FUSARIUM WILT (NICOTIANA)

BLACK ROOT ROT

FUSARIUM WILT (BATATAS)

BLUE MOLD

FROGEYE

WILDFIRE (SPECIES)

BROWN SPOT

BLACKFIRE

BACTERIAL WILT

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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").



### Winter Oat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate Number</u>	<u>Issue Date</u>	<u>Term (Yrs.)</u>
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