No. 72022

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, [illegible] IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT [illegible]ETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. [illegible] UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS [illegible] OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS S[illegible]Y THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TOBACCO

'Coker 347'

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* 27th *day of* October *in the year of our Lord one thousand nine hundred and* seventy-six

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

FORM GR-470
(2-12-71)

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSUMER AND 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 347	2. KIND NAME Tobacco	FOR OFFICIAL USE ONLY PVPO NUMBER 72022
3. GENUS AND SPECIES NAME Nicotiana tabacum	4. FAMILY NAME *(Botanical)* Solanaceae 5. DATE OF DETERMINATION 1966	FILING DATE 8/23/71 TIME 4:00 P.M. FEE RECEIVED $ 750.00 CHARGES
6. NAME OF APPLICANT(S) Coker's Pedigreed Seed Company	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 803 332-8151

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:

Dr. Carol R. Miller
Coker's Pedigreed Seed Company
Box 340
Hartsville, S. C. 29550

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

[X] 12A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52, P.L. 91-577)*

[✓] 12B. Exhibit B, Botanical Description of the Variety

[X] 12C. Exhibit C, Objective Description of the Variety

[X] 12D. Exhibit D, Data Indicative of Novelty

[X] 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

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. *(See Section 52, P.L. 91-577).*

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), P.L. 91-577) (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? Registered (1 year) Certified (1 year)

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

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 (P.L. 91-577).

Sept. 3, 1975
(DATE)

Carol R. Miller, Director
Tobacco Breeding and Research
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

12A. ORIGIN AND BREEDING HISTORY OF COKER 347 TOBACCO

1964	Cross of Coker 319 and Coker 258.
1964-65	F_1 plants grown in South Florida winter nursery.
1965	F_2 grown and reselected in summer disease nursery.
1965-66	F_3 grown in South Florida winter nursery.
1966	F_4 progeny lines tested in advanced strain-variety test and summer disease nursery. Stable progeny row 347 selected for advanced testing and evaluation.
1966-67	F_5 grown in South Florida, bulked.
1967	F_6 tested in advanced strain-variety test, summer disease nursery.
1968	F_7 tested in advanced strain-variety test, summer disease nursery, and regional small plot tests (as 67-347S).
1969	F_8 tested in advanced strain-variety test, summer disease nursery, and regional small plot and farmer tests.
1970	F_9 grown in nurseries, demonstration plots, advanced strain-variety tests, and increase fields for seed.
1971	F_{10} grown in nurseries, demonstration plots, advanced strain-variety tests, and increase fields for seed. To be released probably for 1972 growing season.

Coker 347 was selected from a cross of Coker 319 and Coker 258, a variety having high black shank, wilt, and root knot nematode resistance. Developmental procedures were as shown above. The nurseries in which this variety was produced are severely infested with the black shank, Granville (bacterial) wilt, and root knot organisms. Leaves were harvested, identified, cured, graded, and chemically analyzed from every plant progeny throughout the entire development period. Fusarium and Granville wilt inoculation tests were also conducted in the greenhouse during the same winters plants were grown in South Florida near Homestead.

No persistant recurring variants have been observed since it was determined that this variety was stable. The appended data produced by North Carolina State University (Measured Crop Performance - Tobacco, 1972, 1973, and 1974) indicates that Coker 347 is a stable variety.

12B. BOTANICAL DESCRIPTION OF COKER 347 TOBACCO

The variety Coker 347 is a medium-broad leaf type similar to Coker 319, which is planted extensively throughout the flue-cured district. Leaves are somewhat smoother than Coker 319, extend out horizontally on ripening, and will average approximately 24 inches in length and 12 inches in width at the widest point. Plants bloom at a medium early date, or about three days later than Coker 319, and average 25 to 26 leaves per plant. Leaves are spaced 2¼ inches on a stalk approximately 59 inches in height. It has good wind or storm resistance.

12C. OBJECTIVE DESCRIPTION OF COKER 347 TOBACCO

Coker 347 was bred and reselected for a Coker 319 type with higher disease resistance, higher yield, and high quality. It has good resistance or tolerance to black shank, Granville wilt, Fusarium wilt, root knot nematode, and brown spot.

12D. PARTICULARS OF PERFORMANCE OF COKER 347 TOBACCO

COMPARATIVE PERFORMANCE DATA OF COKER 319* AND COKER 347 VARIETIES OF FLUE-CURED TOBACCO
Three year average for 1968, 1969, and 1970
Data obtained from three replicates at each of two locations, 1/100th acre size plots.

Variety	Lb./Acre	Price/Cwt.	Days to Bloom	Ground Suckers/Acre
Coker 319	2373	75.29	57	250
Coker 347	2878	74.89	60	22

*Most widely grown and accepted throughout the flue-cured district for a number of years.