No. 7200043

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Terra 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 (7 U.S.C. 2541, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Deltapine SR-2'

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* June *in the year of our Lord one thousand nine hundred and* seventy-five.

John R Block

Secretary of Agriculture

Attest:

Kenneth A.

Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

No. 7200043

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Delta & Pine Land 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 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 (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Deltapine SR-2'

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* June *in the year of our Lord one thousand nine hundred and* seventy-five

Attest:

L. H. Rollins

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Butz

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 Deltapine SR-2	2. KIND NAME Cotton	FOR OFFICIAL USE ONLY PVPO NUMBER 00 72043	
3. GENUS AND SPECIES NAME Gossypium hirsutum	4. FAMILY NAME *(Botanical)* Malvaceae	FILING DATE 10/15/71	TIME 11 A.M.
	5. DATE OF DETERMINATION October 1965	FEE RECEIVED $ 750.00	CHARGES —
6. NAME OF APPLICANT(S) Delta & Pine Land Co.	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* Scott, Mississippi 38772		8. TELEPHONE AREA CODE AND NUMBER 601-742-3351
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* Corporation	10. STATE OF INCORPORATION Mississippi		11. DATE OF INCORPORATION April 29, 1886

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Delta & Pine Land Company
Research Department
Scott, Mississippi 38772

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)*
- [X] 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.)* [ ] YES [X] 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? Three

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).

October 14, 1971
(DATE)

Delta and Pine Land Company of Miss.
By [signature]
(SIGNATURE OF APPLICANT) Vice-President

October 14, 1971
(DATE)

By [signature]
(SIGNATURE OF APPLICANT) President

FORM GR-470 (REVERSE)

U.S. DEPARTMENT OF AGRICULTURE
RECEIVED
OCT 1971
CSMS GRAIN DIVISION

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and $50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All items on the face of the form are self-explanatory unles noted below.

ITEM

5 Insert the date the applicant determined that he had a new variety.

12a 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.

12b 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.

12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.

12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

72043

EXHIBIT A

Delta & Pine Land Company's Application for Deltapine SR-2

Origin and Breeding History

1963: Cross 6311 of Deltapine 5835-91-01 x Deltapine 62204 (Deltapine Smooth Leaf x Rex) x (Gregg 35 x Rex) was made.

Selections were made through the F_5 generations.

First test results were obtained from 8 times replicated randomized complete block design test in 1967 repeated over the consecutive years from New Strains, Advanced Strains to Variety Tests.

This variety has been carefully selected over a number of generations as explained in the first of this section so that the characters described in "Exhibit D" are demonstratively repeated in each generation within the variations caused by environmental differences. In order to assure this stability plants of this variety are reselected at frequent intervals, grown in progeny rows, checked in progeny tests and variety reconstituted by bulking lines which are characteristic of the variety.

72043

EXHIBIT B

Delta & Pine Land Company's Application for Deltapine SR-2

Botanical Description

The root system is extensive; stem erect branching; leaves medium sized green, approximately two-thirds of which have smooth leaves like those of the variety Deltapine Smooth Leaf (That is, leaves having a few hairs on the ribs but none on the rest of the leaf surface at maturity. Juvenile leaves have more hairs but these shed at leaf maturity.); flower cream; pollen cream; fruit medium sized, round, pointed, storm resistant; seed black in acid delinted stage; linters gray-green; fiber 1-1/32" average, 85,000 PSI, 23.5 1/8 gauge stelometer, 4.2 micronaire.

Amendment - April 22, 1974

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-8
(10-2-72)

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

EXHIBIT C
(Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: *See Reverse.*

COTTON *(GOSSYPIUM SPP.)*

NAME OF APPLICANT(S)
Delta & Pine Land Company

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
Scott, Mississippi 38772

FOR OFFICIAL USE ONLY

PVPO NUMBER
72043

VARIETY NAME OR TEMPORARY DESIGNATION
Deltapine SR-2

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 or 9 or less.

1. SPECIES:

[1] 1 = GOSSYPIUM HIRSUTUM 2 = GOSSYPIUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

[0] EASTERN [0] DELTA [2] CENTRAL [2] HIGH PLAINS [0] EL PASO AREA
[0] WESTERN LOW HOT VALLEYS [0] SAN JOAQUIN [0] OTHER *(Specify)* _____

3. MATURITY (50% Open Boll):

[0][8] NO. OF DAYS *EARLIER* THAN ..... [7]
[ ][ ] NO. OF DAYS *LATER* THAN ..... [ ]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER *(Specify)* _____

4. PLANT HABIT:

[3] 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT [1] 1 = FOLIAGE SPARSE 2 = DENSE 3 = OTHER *(Specify)* _____

5. PLANT HEIGHT: 00 letter 11/24/74

[1][0] CM. *SHORTER* THAN ..... [7]
[ ][ ] CM. *TALLER* THAN ..... [ ]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER *(Specify)* _____

6. MAIN STEM:

[3] 1 = LAX 2 = ASCENDING 3 = ERECT [9] CM. TO FIRST FRUITING BRANCH [0][8] NO. OF NODES TO FIRST FRUITING BRANC *(from cotyledonary node)*

7. LEAF:

[1][0] CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENSE:

[2] 1 = GLABROUS (HAIRS AS SPARSE AS D_2 SMOOTH)
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H_1 OR H_2) 5 = OTHER *(Specify)* _____

9. LEAF COLOR:

[2] 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN *(Acala-442)* 4 = RED
5 = OTHER *(Specify)* _____

10. LEAF TYPE:

[1] 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER *(Specify)* _____

11. FLOWER:

[2] 1 = NECTARILESS 2 = NECTARIED

[1] Petals: 1 = CREAM 2 = YELLOW [1] Pollen: 1 = CREAM 2 = YELLOW

12. FRUITING BRANCH TYPE:

[2] 1 = CLUSTER 2 = SHORT 3 = NORMAL [1] 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

[3] 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS
4 = OTHER *(Specify)* _____

[1] 1 = NORMAL BUD GOSSYPOL
2 = HIGH BUD GOSSYPOL

14. SEEDS:

[0][1][0] ± [0][2] SEED INDEX *(Fuzzy seed basis)*

[2] Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER *(Specify)* _____

4

72043

15. BOLLS:

[2] Locules: 1 = 3-4, 2 = 4-5

[29] NO. SEEDS PER BOLL

[240] LINT PERCENT

[49] MM. DIAMETER

[1] Pitted: 1 = NONE, 2 = FINELY, 3 = COURSELY

[510] GRAMS SEED COTTON PER BOLL

[2] Breadth: 1 = BROADER AT BASE, 2 = BROADER AT MIDDLE

[2] Type: 1 = STORMPROOF (WESTBURN 70), 2 = STORM RESISTANT (LANKART 57), 3 = OPEN (DELTAPINE 16)

[3] Shape: 1 = LENGTH < WIDTH, 2 = LENGTH = WIDTH, 3 = LENGTH > WIDTH

16. BRACTEOLES:

[1] Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

[2] Teeth: 1 = FINE 2 = COURSE

[2] Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER *(Specify)* _____

17. YIELD: Compared to—

[ ] PERCENT *LESS* THAN .....

[050] PERCENT *MORE* THAN .....

[ ] [4] 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1 7 = LANKART 57

18. FIBER LENGTH (Complete one or more of the following and give the means):

[ ] SPAN LENGTH 50%

[105] SPAN LENGTH 2.5%

[ ] U.H.M. LENGTH

[ ] MEAN LENGTH

[33] STAPLE LENGTH 32nd INCHES

[ ] UNIFORMITY RATIO (MEAN/U.H.M.)

[44] UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

[086] 1,000 P.S.I.

[065] ELONGATION E_1

[ ] STILOMETER T_0

[420] MICRONAIRE READING

[ ] YARN STRENGTH *(Give test method)* _____

[231] STILOMETER T_1

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[1] VERTICILLIUM WILT	[0] FUSARIUM WILT	[0] ROOT KNOT NEMATODE	[0] BACTERIAL BLIGHT *(Race 1)*
[0] BACTERIAL BLIGHT *(Race 2)*	[1] ASCOCHYTA BLIGHT	[0] PHYMATOTRICHUM ROOT ROT	[0] RHIZOCTONIA
[0] ANTHRACNOSE	[0] RUST	[0] OTHER *(Specify)* _____	

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] BOLL WEEVIL	[0] APHID	[0] FLEAHOPPER	[0] LEAFWORM
[0] FALL ARMYWORM	[0] GRASSHOPPER	[0] LYGUS	[0] PINK BOLLWORM
[0] STINKBUG	[0] THRIP	[0] CUTWORM	[0] SPIDERMITE
[0] OTHER *(Specify)* _____			

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

'Deltapine SR-2'
Cotton

PV No. 72043

EXHIBIT D

'Deltapine SR-2' most closely resembles 'Lankart 57.' It differs from 'Lankart 57' in having a longer (1.09 vs 1.02inches) and stronger fiber (24.8 vs 19.1 gf/tex) has more storm resistant bolls, smaller leaves, and matures 8 days earlier.

Dec 9 1974
Date

Early C. Ewing, Jr.
Early C. Ewing, Jr.

72043

EXHIBIT D

AMENDMENT TO EXHIBIT D FOR DELTAPINE SR-2 (72043)

DATA INDICATIVE OF NOVELTY:

Our original application compares Deltapine SR-2 with Paymaster 111 and Lankart 57 in a narrative form. The attached tables supporting this narrative are condensed as follows:

	Lint Per Acre	Lint %	Stelometer *	Elongation	PSI	Class	2.5% Length	Uniformity	Micronaire	Grade	Earliness	Storm Resist.	Leafiness	Plant Height	B Vigor
	One Test in 1967 at Lubbock										- Indices -				
Deltapine SR-1	691	24.5	25.7	6.4			1.08	46	4.1		3	3	3	2	3
Deltapine SR-2	693	25.5	24.8	7.1			1.09	45	3.8		3	3	2	2	3
Lankart 57	688	25.3	19.1	8.8			1.02	46	4.3		3	3	3	2	1
	Average of 6 tests in 3 years 1968, 69, 70														
					2 yrs.										2 yrs.
Deltapine SR-1	579	21.9	25.4	7.6	92	34	1.07	44	4.1	SLM	2	3	2	2	3
Deltapine SR-2	547	22.9	23.6	7.6	91	33	1.04	44	4.2	SLM+	3	4	2	2	3
Paymaster 111	561	22.4	22.4	7.9	86	33	1.03	44	4.4	SLM	2	3	2	2	3

* Strength at 1/8" gauge

April 22, 1974

72043

EXHIBIT E (Amendment)

DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE SR-2 (72043)

Delta & Pine Land Company is the owner of plant variety protection rights to the variety Deltapine SR-2 (72043). ; The breeder is an employee of the company and has executed an assignment of Plant Variety Rights to the Company.

DATE: Nov 1 1973

SIGNED Early C. Ewing Jr.
Early C. Ewing, Jr.
Vice President

ASSIGNMENT

The undersigned (the "Seller"), for good and valuable consideration hereby assigns to TERRA CHEMICALS INTERNATIONAL, INC., a Delaware corporation, and its successors and assigns (the "Buyer"), all of the undersigned's right, title and interest in and to all of the Seller's breeding rights to all generations of "stripper type" cotton seed now owned by the Seller, including, but not limited to, those described on Schedule 1 annexed hereto, and any varieties pending registration, all experimental varieties either in the increase stage or in the laboratory testing stage and all research (including such data as may be on computers), strains and materials.

This instrument is being executed in order to record the assignment described herein with the Plant Variety Protection Office of the Department of Agriculture pursuant to Section 2531(d) of Title 7 of the United States Code and the regulations promulgated thereunder.

IN WITNESS WHEREOF, the Seller has caused this Assignment to be executed on its behalf by its duly authorized officer on this 31 day of March, 1983.

DELTA PINE LAND COMPANY

By F.W. Canfield

F.W. Canfield

STATE OF TENNESSEE

COUNTY OF SHELBY

Before me, a Notary Public, in and for said State and County, duly commissioned and qualified, personally appeared F. W. CANFIELD, known to me to be the person whose name is subscribed to the foregoing instrument and known to me to be the Financial Vice President of DELTA AND PINE LAND COMPANY, a corporation, and acknowledged to me that he executed said instrument for the purposes and consideration therein expressed, and as the act of said corporation.

Given under my hand and seal of office this 3d day of March, 1983.

Louise Webb
Notary Public

My commission expires:

My Commission Expires March 17, 1986

Schedule 1

Cotton Seed Varieties of Delta and Pine Land Company for which Certificates have been issued

Variety	Certificate No.	Certificate Date
Deltapine SR-1	7200042	6/27/75
Deltapine SR-2	7200043	6/27/75
Deltapine SR-4	7500089	6/17/76
Deltapine SR-5	8000052	12/18/80
Deltapine SR-980	8100098	11/19/81
Deltapine SR-482	8200067	7/15/82
Deltapine SR-383	8200137	12/30/82

ASSIGNMENT

The undersigned (the "Sellers"), for good and valuable consideration, hereby sells, assigns and transfers to Summit Seed Company, Inc., a Texas corporation, and its successors and assigns (the "Buyer") all of the undersigned's right, title and interest in and to the following plant varieties:

Certificate Number 8400088, Terra SR-10
Certificate Number 7200043, Deltapine SR-2
Certificate Number 7500089, Deltapine SR-4
Certificate Number 8000052, Deltapine SR-5
Certificate Number 8200137, Deltapine SR-383
Certificate Number 8200067, Deltapine SR-482
Certificate Number 7200042, Deltapine SR-1
Certificate Number 8100098, Deltapine SR-980

This instrument is being executed in order to record the assignment described herein with the Plant Variety Protection Office, the Department of Agriculture pursuant to Section 2531(d) of Title 7 of the United States Code and Regulations promulgated thereunder.

IN WITNESS WHEREOF, the Sellers have caused this Assignment to be executed on their behalf by their duly authorized officers effective on the 27th day of August, 1986.

TERRA SEED COMPANY

By: Gregory J. Duerksen
Gregory J. Duerksen
Its: Vice President

TERRA INTERNATIONAL, INC.

By: Gregory J. Duerksen
GREGORY J. DUERKSEN
Its: VP, Marketing & Development

STATE OF Iowa §

COUNTY OF Woodbury §

THIS INSTRUMENT ACKNOWELDGED BEFORE ME on this the 4th day of May, 1988, by Gregory J. Duerksen, Vice President of Terra Seed Company.

Brenda S. Bradley
Notary Public State of Iowa
BRENDA S. BRADLEY, Notary Public
In and for the State of Iowa
My Commission Expires Aug. 18, 1989

STATE OF Iowa §

COUNTY OF Woodbury §

THIS INSTRUMENT ACKNOWELDGED BEFORE ME on this the 4th day of May, 1988, by Gregory J. Duerksen, Vice President of Terra International, Inc.

Brenda S. Bradley
Notary Public State of Iowa
BRENDA S. BRADLEY, Notary Public
In and for the State of Iowa
My Commission Expires Aug. 18, 1989

SECURITY AGREEMENT

Date May 6, 1988

WEST TEXAS SEED & DELINTING, INC. P. O. Box 355
(Debtor's Name) Street Address

Slaton Lubbock Texas 79364
City County State

(hereinafter called DEBTOR) for value received hereby grants to

LORENZO STATE BANK
(Secured Party's Name)

(hereinafter called SECURED PARTY) whose address is P. O. Box 490
Street

Lorenzo, Crosby County, Texas 79343
City, County, and State

a security interest in and mortgages to SECURED PARTY the following described property (which hereinafter is referred to as COLLATERAL) to-wit:

All of Debtor's right, title and interest in and to the following Plant Variety Protection Certificates, each in the name of West Texas Seed & Delinting, Inc.

1. Certificate No. 8400088, Terra SR-10
2. Certificate No. 7200043, Deltapine SR-2
3. Certificate No. 7500089, Deltapine SR-4
4. Certificate No. 8000052, Deltapine SR-5
5. Certificate No. 8200137, Deltapine SR-383
6. Certificate No. 8200067, Deltapine SR-482
7. Certificate No. 7200042, Deltapine SR-1
8. Certificate No. 8100098, Deltapine SR-980

(Note—If COLLATERAL is crops, or oil, gas or minerals to be extracted, or timber to be cut, or if COLLATERAL is to become a fixture, describe in the above space following the description of the COLLATERAL the real estate concerned, and give the name of the record owner hereof.)

to secure DEBTOR'S note to SECURED PARTY dated May 6, 19 88, for $ 365,000.00

DEBTOR warrants and covenants: (Note—Place checkmark (✓) in the blank space before each statement which applies to this agreement.)

(____) COLLATERAL is to be used for personal, family, or household purposes.
(x) COLLATERAL is to be used in business other than farming operations.
(____) COLLATERAL is equipment used in farming operations, or farm products, or accounts, contract rights or general intangibles arising from or relating to the sale of farm products by a farmer.
( ) COLLATERAL is accounts or contract rights and the records concerning same are kept at

_____,
or if left blank at address given for DEBTOR.

(____) COLLATERAL is a fixture attached to or to become a fixture attached to the above described land.
(____) COLLATERAL is being acquired by DEBTOR from SECURED PARTY or is being acquired with the proceeds of the advance evidenced by this agreement.

DEBTOR'S residence is at:
P. O. Box 355, Slaton, TX 79364
(Address)

COLLATERAL will be kept at:
P. O. Box 355, Slaton, TX 79364
(Address)

DEBTOR'S chief place of business is at:
P. O. Box 355, Slaton, TX 79364
(Address)

The warranties, covenants, terms and agreements on the reverse side hereof are incorporated herein and made a part hereof for all intents and purposes. DEBTOR and SECURED PARTY as used in this Security Agreement include the heirs, executors or administrators, successors or assigns of those parties.

SECURED PARTY:

LORENZO STATE BANK
Name

By Max Joiner
(Signature) (Title)
MAX JOINER, Exec. Vice President

DEBTOR:

WEST TEXAS SEED & DELINTING, INC.
Name

H. R. Donaldson Pres.
(Signature) (Title)
H. R. DONALDSON, President

BILL OF SALE

DATE: May 6, 1988

SELLER: Summit Seed Company, Inc., a Texas corporation

SELLER'S ADDRESS: 622 28th Street
Lubbock, Lubbock County, Texas 79401

BUYER: West Texas Seed and Delinting, Inc., a Texas corporation

BUYER'S ADDRESS: Box 335
Slaton, Lubbock County, Texas 79364

CONSIDERATION: TEN AND NO/100THS DOLLARS ($10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged.

PERSONAL PROPERTY: (1) Certain fixed assets of Seller relating to its cotton seed business, including those assets listed on Exhibit "1" attached hereto.

(2) Seller's entire cotton breeding and research program, expressly including the breeding rights to all cotton varieties or strains now owned by Seller, including, but not limited to those registered varieties described in Exhibit "2" attached hereto, the advance experimental strains of cotton varieties listed in Schedule "3" attached hereto and all other experimental strains or varieties either in the increased stage or in the laboratory testing stage, and all research data, strains, crosses, seeds, and materials relating to cotton and/or Seller's cotton seed business.

(3) All of Seller's intellectual property rights, whether registered or not, including, without limitation, trade secrets, software, trademarks, service marks, registered names, copyrights, certificates of plant variety protection, and patents relating to Seller's cotton seed business or the assets conveyed herein, except, however, Seller does not convey any goodwill connected with the name "Summit Seed Co." or any variations thereof and WTS&D shall not have the right to use such name except in sale of existing bags, containers and/or labels bearing the Summit name.

(4) All of Seller's existing inventory of registered and breeder's cotton seed, together with all bags, labels and other containers associated with said inventory of cotton seed, and the right to use the labels, and containers in the course of sale of such inventory.

(5) All of Seller's right, title and interest in any claims, causes of action and judgments relating to Seller's cotton seed business for the assets conveyed herein.

(6) All books, records, and other data relating to Seller's cotton seed business or to the purchased assets, including, without limitation, all customer lists, fixed asset records, purchase orders, invoices, sales orders, correspondence, contract files, sales literature, catalogues, brochures, price lists, and product data.

FOR VALUE RECEIVED Seller sells and delivers the

personal property to Buyer and warrants and agrees to defend title to the personal property to Buyer against all lawful claims.

SUMMIT SEED COMPANY, INC., a Texas Corporation

By: Gary Rea
Gary Rea
Its: President

ATTEST:

Jerry Parker, Secretary

EXHIBIT "1"

One John Deere LP Tractor

One Debur Machine

One 10 Saw Table Gin

One Cotton Press

One 10 Saw Eagle Gin

One Lint Cleaner

One Research Gin

One Micronaire Gage

One Smith Air Compressor

One Cotton Stripper

One Acid Delinter

One Saw Gin Condenser

One Four Row Planter with Cones

EXHIBIT "2"

PVP Certificate Number 8400088, Terra SR-10

PVP Certificate Number 7200043, Deltapine SR-2

PVP Certificate Number 7500089, Deltapine SR-4

PVP Certificate Number 8000052, Deltapine SR-5

PVP Certificate Number 8200137, Deltapine SR-383

PVP Certificate Number 8200067, Deltapine SR-482

PVP Certificate Number 7200042, Deltapine SR-1

PVP Certificate Number 8100098, Deltapine SR-980.

EXHIBIT "3"

X41431

X41432

X41427

X41428

X41402

X61003

X61002

X61001

X61004

Any and all other experimental varieties in existence owned by Summit.