No. 7200018

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Lankart Seed Farm, Ltd.

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

COTTON

'LX 571'

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* 24th *day of* June *in the year of our Lord one thousand nine hundred and* seventy-four

Attest:

S. J. Rollin

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L Butz

Secretary of Agriculture

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
COTTON (*GOSSYPIUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
C.S.Lankart- Lankart Seed Farm,Ltd.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)
Route 6, Box 585
Waco, Texas 76706

FOR OFFICIAL USE ONLY

PVPO NUMBER
72018

VARIETY NAME OR TEMPORARY DESIGNATION
Lankart Selection LX 571

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):

[ ] EASTERN [ ] DELTA [X] CENTRAL [ ] HIGH PLAINS [ ] EL PASO AREA
[ ] WESTERN LOW HOT VALLEYS [ ] SAN JOAQUIN [ ] OTHER (*Specify*) Texas & Oklahoma

3. MATURITY (50% Open Boll):

[ ][5] 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:

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

5. PLANT HEIGHT:

Same [ ][ ] 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:

[2] 1 = LAX 2 = ASCENDING 3 = ERECT [2] CM. TO FIRST FRUITING BRANCH [ ][4] NO. OF NODES TO FIRST FRUITING BRANC (*from cotyledonary node*)

7. LEAF:

[ ][3.8] CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENSE:

[3] 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: 10/8/85

[~~3~~ 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 = NORMAL BUD GOSSYPOL 2 = HIGH BUD GOSSYPOL

SEEDS: 3/5/74

[3][0] ± [ ][ ] SEED INDEX (*Fuzzy seed basis*) [2] Seed Fuzz: Medium 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16) 3 = HEAVY (ACALA SJ-1) 4 = OTHER (*Specify*) _____ 3

FORM GR-470-8 (REVERSE)

15. BOLLS:

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

[4 0] NO. SEEDS PER BOLL

[3 7] LINT PERCENT

[ ] MM. DIAMETER

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

[6 0 0] GRAMS SEED COTTON PER BOLL

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

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

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

16. BRACTEOLES:

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

[ ] Teeth: 1 = FINE 2 = COURSE

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

17. YIELD: Compared to

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

[5 %] PERCENT *MORE* THAN .....

[ ] [7] 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): See enclosed fiber analysis

[illegible] SPAN LENGTH 50%

[illegible] SPAN LENGTH 2.5%

[ ] U.H.M. LENGTH

[1 1/32] MEAN LENGTH

[3 3] STAPLE LENGTH 32nd INCHES to 34/32

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

[4 6] UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION: See enclosure

[8 4] 1,000 P.S.I. ← applicant data

[6 9] ELONGATION E_1

[ ] STILOMETER T_0

[4 5 0] MICRONAIRE READING

3/5/74 [0 9 0] YARN STRENGTH (*Give test method*) 22's

[illegible] STILOMETER T_1

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

[ ] VERTICILLIUM WILT

[ ] FUSARIUM WILT

[ ] ROOT KNOT NEMATODE

[ ] BACTERIAL BLIGHT (*Race 1*)

[ ] BACTERIAL BLIGHT (*Race 2*)

[ ] ASCOCHYTA BLIGHT

[ ] PHYMATOTRICHUM ROOT ROT

[ ] RHIZOCTONIA

[ ] ANTHRACNOSE

[ ] RUST

[ ] OTHER (*Specify*) Not tested

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

[ ] BOLL WEEVIL

[ ] APHID

[ ] FLEAHOPPER

[ ] LEAFWORM

[ ] FALL ARMYWORM

[ ] GRASSHOPPER

[ ] LYGUS

[ ] PINK BOLLWORM

[ ] STINKBUG

[ ] THRIP

[ ] CUTWORM

[ ] SPIDERMITE

[ ] OTHER (*Specify*) Not tested

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.

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 ~~Lankart~~ LX 571	2. KIND NAME Cotton	FOR OFFICIAL USE ONLY PV NUMBER 72018
3. GENUS AND SPECIES NAME	4. FAMILY NAME *(Botanical)*	FILING DATE 8/6/71 — TIME 1:00 ~~A.M.~~ P.M.
	5. DATE OF DETERMINATION	FEE RECEIVED $ 250.00 — BALANCE DUE $ 0.00 $ 250 — $ $ 250 — $
6. NAME OF APPLICANT(S) Lankart Seed Farm, Ltd.	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* Route 6, Box 585 Waco, Texas 76706	8. TELEPHONE AREA CODE AND NUMBER 817 881 1601
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* Limited Partnership	10. STATE OF INCORPORATION	11. DATE OF INCORPORATION

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

C. S. Lankart
Route 6, Box 585
Waco, Texas 76706

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, Botanical Description of the Variety
- [ ] 13C. Exhibit C, Objective Description of the Variety
- [ ] 13D. Exhibit D, Data Indicative of Novelty
- [ ] 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? [ ] FOUNDATION [ ] 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.

June 18, 1973
(DATE)

C S Lankart
(SIGNATURE OF APPLICANT)
General Partner
Lankart Seed Farm, Ltd 1

(DATE)

(SIGNATURE OF APPLICANT)

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.

12 A. 1. Single boll selection and planting separately in test plats.

2. Selections made exclusively out of straight line Lankart Selection 57 variety of cotton.

3. Each succeeding generation is selected and planted in like manner. No out crosses are made and no variants or off type plants appear.

12 B. 1. As compard to its parent, Lankart LX 571 is slightly larger and more vigorous growth and smaller leaf.

2. Flowering stage and fruiting habits are the same.

12 C. ✓Samples and data will be furnished under separate cover.

12 D. ✓Samples and data will be furnished under separate cover.

12 E. Applicant is the originator and breeder of the new cotton Lankart LX 571.

'LX 571' PV#72018

Exhibit D

Statement Of Novelty

'LX571' most closely resembles 'Lankart Selection 57' from which it was selected except that 'LX 571' germinates two days earlier, matures one week earlier, has a 3/32 inch (32-34 Versus 28-32/32) longer staple length, a 13,500 P.S.I. stronger (88-92,000 Versus 73-80,000) fiber, and medium size leaf versus very large leaf, and medium dense versus dense foliage.

C S Lankart