No. 7200090

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

J. H. Lambright

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 IED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Lambright L-X-28'

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, DC *this* 10th *day of* June *in the year of our Lord one thousand nine hundred and* seventy-four

Attest:

S. G. Rollin

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 Lambright L-X-28	2. KIND NAME Upland Cotton	FOR OFFICIAL USE ONLY PVPO NUMBER 72090
3. GENUS AND SPECIES NAME Genus Gossypium	4. FAMILY NAME *(Botanical)* Gossypium Hirsutum L. 5. DATE OF DETERMINATION Year 1969	FILING DATE 2.22.72 TIME 3 A.M. P.M. FEE RECEIVED $750.00 CHARGES
6. NAME OF APPLICANT(S) J.H. Lambright	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* Route 2, Slaton, Texas 79364	8. TELEPHONE AREA CODE AND NUMBER 806-996-2866
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	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:

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [✓] 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
- [✓] 12C. Exhibit C, Objective Description of the Variety
- [✓] 12D. Exhibit D, Data Indicative of Novelty
- [✓] 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 [ ] 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?

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).

February 18, 1972
(DATE)

J. H. Lambright
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

U. S. DEPARTMENT OF AGRICULTURE
GRAIN DIVISION
RECEIVED

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.

Exhibit A, Origin and Breeding History of the Lambright L-X-28 Cotton Variety

The Lambright L-X-28 variety has been developed from a single plant selection made in 1966, from the Lambright X-15-3 variety, which was developed from a cross made in 1964, by J.H. Lambright, by using the Del Cerro and Lambright 123 BR-1 cottons, the 123 BR-1 being a short staple stormproof, and the Del Cerro a longer staple loose lock cotton.

The Lambright 123 BR-1 variety showed Bacterial Blight resistance to all 4 Races of a mixture of Race 1,Race 2, and Variant 5, Variant 6, of Xanthamonas Malvacearum, conducted at the Texas Agricultural Experiment Station at Lubbock Texas in 1965.

By use of the facilities at Iguala Mexico the X-15-3 material was increased in the winter of 1965-66, making the L-X-28 cotton a single plant selection from a third generation cross. The actual fiber length was, 1 3/8 to 1 3/4 inches. With only 112 plants in 1967, each were harvested individually, saving only the plants with the most desireable specifications. In 1968 the number of parent plants were reduced further, with plant No. 28 being most near to expectations, with the fiber properties being equal or near that of the parent plant. The row height is being maintained by removing an occasional tall plant.

Exhibit B, Botanical Description of the
Lambright L-X- 28 Cotton Variety

The Lambright L-X-28 variety is a normal glanded plant, it has no unusual Botanical seed or seedling characteristics, annual plants, of medium height, foliage light, has determinant type growth, of the smooth leaf class, (glabrous), with vegetative branching very rare, medium to small, 3 to 5 lobe leaves, darker green in color, the flowers are medium in size, 5 petals, and borne singly, the corolla and pollen are light creamy or light creamy yellow in color, (as are most commercial varieties), short jointed, 1 to 5 boll fruiting branches, creating a cylindrical or conical form, the bolls are medium in size, 4 and 5 locks, round to round ovate in shape, slightly beaked, stormproof, the seed are medium in size, ovate in shape, and coated with a short greenish blue linters.

The L-X-28 cotton matures as early, has a much longer, stronger fiber, with a higher spinning performance, than the parent plant the X-15-3 Variety.

Exhibit C, Objective Description of the
Lambright L-X-28 Cotton Variety

The Lambright L-X-28 variety of cotton is normal glanded, of medium height, with medium size, strong main stem, erect, determinant type of growth, of the smooth leaf class, foliage light, vegetative branching very rare, early maturity, good root system, that supplies the plant well, medium to small 3 to 5 lobe leaves, darker green in color, the flowers are medium in size, 5 petals, borne singly, the corolla and pollen are light creamy or light creamy yellow in color, (as are most commercial varieties,) 1 to 5 boll fruiting branch, fruit setting crose to plant, creating a cylindrical or conical form, the fruit is medium in size, 4 and 5 locks, slightly beaked, round to round ovate in shape, stormproof, 65 to 70 bolls per Lb.,of seed cotton, lint percent 30 to 34 percent, The typical range of fiber properties are, lint length, 1 1/4 to 1 1/2 inches, P.S.I. 95,000 to 105,000 Lbs. micronaire reading of 3.0 to 3.5, the seed are medium in size, ovate in shape, and coated with a short greenish blue linters, 3,000 to 3,400 to Lb. 120 to 125 days to maturity, the L-X-28 cotton has been developed for once over stripper type harvest, not suitable for spindle picking, has good tolerence to Verticillium and Fusarium wilt, with little or no Bacterial Blight,

72090

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)
J.H. Lambright

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
Route 2
Slaton, Texas 79364

FOR OFFICIAL USE ONLY

PVPO NUMBER
72090

VARIETY NAME OR TEMPORARY DESIGNATION
Lambright L-X-28

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

3. MATURITY (50% Open Boll):

[0][0] NO. OF DAYS *EARLIER* THAN ..... [5]
[0][7] NO. OF DAYS *LATER* 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 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:

[0][1]" CM. *SHORTER* THAN ..... [4]
[0][3]" CM. *TALLER* 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 8 = OTHER *(Specify)* _____

6. MAIN STEM:

[3] 1 = LAX 2 = ASCENDING 3 = ERECT

[3]" CM. TO FIRST FRUITING BRANCH

[0][5] NO. OF NODES TO FIRST FRUITING BRANC *(from cotyledonary node)*

7. LEAF:

[4][½]" 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:

[3] 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:

[1][2][3] ± [13.1] SEED INDEX *(Fuzzy seed basis)*

[2] Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER *(Specify)* 5

Letter Jan 10, 1974

Exhibit D

Data Indicative of Novelty

Application No. 72090, Cotton, 'Lambright L-X-28'

Lambright L-X-28, is shorter jointed, and a more compact plant than its parent or either of its ancestral parents. Lambright L-X-28 is most similiar to its one parent, Lambright 123-BR-1, including height, days to maturity, fruiting habits, storm resistance, and resistance to bacterial blight race 1, and 2, and variants 5, and 6.

The novelty of the Lambright L-X-28, is it has shorter joints, 1.12 grams smaller boll, 3 percent higher degree of resistance to verticillium and fusarium wilt, .33 inches longer, and has 25,000 lbs. P.S.I. stronger fiber than the Lambright 123-BR-1 variety.

J. H. Lambright

J.H. Lambright

Exhibit E, Statement of the Basis of
Applicants Ownership

I hereby declare that the foregoing statements, and information submitted, are true and correct to the best of my knowledge and belief.

And that I am the originator, breeder, and rightful owner, of the following varieties of cotton being submitted for plant protection at this time,

Lambright X-15-3-A variety

Lambright L-X-28 variety

Lambright GL-4 variety

Lambright X-15-4 variety

This Day, February 18, 1972 Signed, J. H. Lambright

FORM GR-470-8 (REVERSE)

corrected 1/21/74 DDH

#4-7

15. BOLLS:

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

39 NO. SEEDS PER BOLL

320 LINT PERCENT

1 3/8 MM. DIAMETER

35

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

5.64 1/10/74 letter

~~730~~ 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:

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

2 Teeth: 1 = FINE 2 = COURSE

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

17. YIELD: Compared to–

100 PERCENT *LESS* THAN 4

000 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):

SPAN LENGTH 50%

127 SPAN LENGTH 2.5%

~~150~~ U.H.M. LENGTH

DDH 1/19 little

MEAN LENGTH

41 STAPLE LENGTH 32nd INCHES

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

45 UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

100 1,000 P.S.I.

065 ELONGATION E_1

288 STILOMETER T_0

320 MICRONAIRE READING

138 YARN STRENGTH (*Give test method*) lbs. 22 yarns

STILOMETER T_1

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

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

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

0 BOLL WEEVIL	0 APHID	0 FLEAHOPPER	2 LEAFWORM
0 FALL ARMYWORM	0 GRASSHOPPER	0 LYGUS	0 PINK BOLLWORM
0 STINKBUG	0 THRIP	0 CUTWORM	0 SPIDERMITE
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.