No. 7200091

# 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. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS CERTIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Lambright X-15-4'

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:*

L. 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<br>Lambright X-15-4 | 2. KIND NAME<br>Upland Cotton | FOR OFFICIAL USE ONLY<br>PVPO NUMBER 72091 |
| 3. GENUS AND SPECIES NAME<br>Genus Gossypium | 4. FAMILY NAME *(Botanical)*<br>Gossypium Hirsutum L.<br>5. DATE OF DETERMINATION<br>Year 1969 | FILING DATE 2.22.72 TIME 3 A.M. P.M.<br>FEE RECEIVED $ 750.00 CHARGES — |
| 6. NAME OF APPLICANT(S)<br>J.H. Lambright | 7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*<br>Route 2, Slaton, Texas 79364 | 8. TELEPHONE AREA CODE AND NUMBER<br>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:

- [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.)* [x] YES [ ] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [ ] YES [x] 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)

FORM GR-470 (REVERSE)

U.S. DEPARTMENT
RECEIVED
2 1972
CEMS GRAIN DIVISION
CULTURE

## 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 X-15-4 Cotton Variety

The Lambright X-15-4 variety has been developed from a cross made in 1964, by J.H. Lambright, by using the Del Cerro and the Lambright 123 BR-1 cottons, the 123 BR-1 being an upland short staple stormproof, and the Del Cerro a longer staple loose lock cotton.

The Lambright 123 BR-1 cotton 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.

The Lambright X-15-4 cotton had good agronomic and fiber properties in the early stages of reproduction and multiplication, but was lacking the necessary amount of stormproof characteristics for once over stripper type harvest, this situation was overcome by 1968, further improvements were made in 1969, and this was when I first determined I had a new variety. The row height is being regulated by removing an occasional tall plant through the reproduction and multiplication stages.

Exhibit B, Botanical Description of the
Lambright X-15-4 Cotton Variety

The Lambright X-15-4 variety has no unusual botanical seed or seedling characteristics, normal glanded, annual plants, of medium height, in the smooth leaf class, foliage light, determinant type growth, medium size, 3 to 5 lobe leaves, darker green in color, occasional vegetative branching, the flowers are medium in size, and borne singly, 5 petals, the corolla and pollen are light creamy or creamy yellow in color, (as are most commercial varieties), short jointed, 3 to 5 boll fruiting branches, creating a cylindrical or conical form, the bolls are medium to large in size, 4 and 5 locks, round ovate in shape, stormproof, the seed are medium in size, short ovate in shape, and coated with a short whitish gray linters.

The X-15-4 variety is an earlier maturing cotton, with a higher lint percent, and a much higher disease tolerence, than the X-15-3 variety, with all the other properties equal or near the same.

Exhibit C, Objective Description of the
Lambright X-15-4 Cotton Variety

The Lambright X-15-4 variety is a normal glanded cotton, annual plants of medium height, medium size main stem, very erect, early maturity, with determinant type growth, an occasional basal vegetative branch, of the smooth leaf class, good root system that supplies the plant well, medium size, 3 to 5 lobe leaves, darker green in color, foliage light, The flowers are medium in size, 5 petals, and borne singly, the corolla and pollen are light creamy or creamy yellow in color, short jointed, 1 to 5 boll fruiting branches, creating a cylindrical of conical form, the fruit is medium to large in size, 4 and 5 locks, round to round ovate in shape, slightly beaked, 60 bolls seed cotton per lb., lint percent 38 to 40 percent, stormproof, The typical range of fiber properties are, lint length, 1 1/16 to 1 1/8 inches, P.S.I. 90,000 to 95,000 lbs., micronaire reading of 4.0 to 4.6 . medium size seed, ovate in shape, coated with a whitish gray linters, 3,600 to 3,800 seed per lb.,

110 to 120 days to maturity.

The Lambright X-15-4 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.

72091

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
72091

VARIETY NAME OR TEMPORARY DESIGNATION
Lambright X-15-4

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 ..... [7]
[0 5] 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:**

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

**5. PLANT HEIGHT:**

[0 6"] (15) CM. *SHORTER* THAN ..... [5]
[0 2"] (5) CM. *TALLER* 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*) ____

**6. MAIN STEM:**

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

**7. LEAF:** (13)

[0 5"] 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 3 3] ± [15 3] 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

from Oct 8, 1973

EXHIBIT D

Data Indicative of Novelty

Application No. 72091, Cotton 'Lambright X-15-4'

'Lambright X-15-4' is most similar to 'Lambright 123-BR-1', one of its parents, including its fruiting habits, storm resistance, short joints and resistance to bacterial blight races 1 and 2 and variants 5 and 6, but 'Lambright X-15-4' has 0.91 grams larger bolls, 0.06 inches longer and 22,000 PSI stronger fiber. It is an average of 4 inches taller, more erect and sets fruit higher off the ground.

0.91 See letter 1/10/74

'Lambright X-15-4' is resistant to Verticillium and Fusarium wilt, Ascochyta blight and anthracnose, while 'Lambright 123-BR-1' is not.

J. H. Lambright



Received with letter Oct 8, 1973

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, D. H. Lambright