No. 8200077

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Coffey 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 eighteen 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 THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WATERMELON

'Crimson Diamond'

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* 19th *day of* August *in the year of our Lord one thousand nine hundred and* eighty-two.

Attest:

Kenneth H. Ed

Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R Block

Secretary of Agriculture

FORM GR-470
(1-76)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME	FOR OFFICIAL USE ONLY
Crimson Diamond	Crimson Diamond	PV NUMBER 8200077
2. KIND NAME	3. GENUS AND SPECIES NAME	FILING DATE 3/9/82 TIME 2:30 A.M. P.M.
watermelon	Citrullus lanatus	FEE RECEIVED $250.00 $250.00 $250.00 DATE 3/9/82 3/9/82 7/19/82
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETERMINATION	
cucurbitaceae	10-20-78	
6. NAME OF APPLICANT(S)	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	8. TELEPHONE AREA CODE AND NUMBER
Coffey Seed Company	Rt. 1 Plainview, Tx. 79072	806-293-5304

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION
Corporation	12-73 Texas	12-73

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

Lee C. Coffey
Coffey Seed Company
Rt. 1
Plainview, Tx. 79072

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Novelty Statement.
- [X] 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- [ ] 13D. Exhibit D, Additional Description of the Variety.

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.)* [ ] YES [X] 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? [ ] FOUNDATION [ ] REGISTERED [ ] CERTIFIED

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? [X] YES [ ] NO

16. The applicant(s) declare(s) 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) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) 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 Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

Feb. 1, 1982
(DATE)

Lee C. Coffey
(SIGNATURE OF APPLICANT)

EXHIBIT A

Crimson Diamond is a F_6 selection out of the cross between the Black Diamond and Crimson Sweet varieties. Each selection from the F_1 through the F_6 were selfed. The selections varied slightly in rind color through the F_5. Seed from six selfed plants in the F_7 were bulked together and increased in isolations. No off types or variants were observed in this increase. In the next increase one light green rind melon exactly like Crimson Diamond was rogued out. Foundation seed was increased in isolation in 1981 in a field of approximately 25 acres. Six apparently light green colored rind melons were rogued out of approximately 125,000 melons. We were not sure about three of these six melons, but we definitely thought that the other three had a green rind like a Black Diamond. We rogued the field three times. The state inspectors reported no off types when checking for certification. Thus, in my opionion this variety is very, very uniform and stable for all essential and distinctive character in accordance with section 41 (a) (2) and (3) of the Plant Variety Protection Act.

NO VARIANTS ARE RECOGNIZED IN 'CRIMSON DIAMOND'.

DCB PER PHONE CONVERSATION WITH L. COFFEY 28 MAY '82

EXHIBIT B

Crimson Diamond is more similar to the Black Diamond Variety in outward appearance than it is to any other variety. There are two very major differences in the two varieties:

1. The Black Diamond has a light colored green rind (a solid color) while the Crimson Diamond has a light green rind with an inconspicous darker green partial stripe.

2. The Black Diamond seed are from 13-14 mm in length and 8-9 mm in width while the Crimson Diamond is 9½ to 10 mm in length and 4½ to 5mm in width.

A close observer, in all instances, could tell the difference in a Black Diamond and a Crimson Diamond, either alone or together, because of the difference in rind color or in seed size. Thus, you can readily distinguish between the two varieties by rind color or by seed size.

FORM GR-470-19
(1-15-73)

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

EXHIBIT C
(Watermelon)

OBJECTIVE DESCRIPTION OF VARIETY
WATERMELON *(CITRULLUS LANATUS)*

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Coffey Seed Company

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
Rt. 1
Plainview, Texas 79072

FOR OFFICIAL USE ONLY
PVPO NUMBER 8200077
VARIETY NAME OR TEMPORARY DESIGNATION
Crimson Diamond

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. TYPE:

[2] 1 = OBLONG 2 = ROUND LARGE 3 = ROUND SMALL *(icebox)*

2. AREA OF BEST ADAPTATION:

[4] 1 = SOUTH 2 = NORTHEAST/NORTHCENTRAL 3 = SOUTHWEST 4 = MOST AREAS

3. EMERGENCE TO ANTHESIS:

[0][0] NO. OF DAYS *EARLIER* THAN ..... [0] 1 = CHARLESTON GREY
[0][4] NO. OF DAYS *LATER* THAN ..... [1] 2 = OTHER *(Specify)* 0 = ~~CRIMSON~~ BLACK DIAMOND DCB

4. POLLINATION TO MATURITY:

[0][0] NO. OF DAYS *EARLIER* THAN ..... [0] 1 = CHARLESTON GREY
[0][4] NO. OF DAYS *LATER* THAN ..... [1] 2 = OTHER *(Specify)* 0 = ~~CRIMSON~~ BLACK DIAMOND DCB, PER LETTER OF MAY 24, 1983

5. PLOIDY:

[1] 1 = DIPLOID 2 = TETRAPLOID 3 = TRIPLOID

6. PLANT

[1] Cotyledon: 1 = FLAT 2 = FOLDED

[1] 1 = MONOECIOUS 2 = ANDROMONOECIOUS

Number of flowers per plant at first fruit set:

[0][8] STAMINATE [0][2] PISTILLATE [0][0] PERFECT [3] NO. OF MAIN STEMS AT CROWN

7. STEM:

[2] 1 = ROUND 2 = ANGULAR [0][7] MM. DIAMETER AT SECOND NODE

[3] 1 = GLABROUS 2 = SCABROUS 3 = PUBESCENT 4 = BRISTLED

[0][9] CM. VINE LENGTH ÷ NO. OF INTERNODES *(At last harvest)*

8. LEAF:

[2] OVATE 1 = OVATE 2 = OBOVATE 3 = ROUND PER LETTER OF MAY 24, 1982 DCB

[1] 1 = LONGER THAN WIDE 2 = LENGTH-WIDTH EQUAL 3 = WIDER THAN LONG

[2] Dorsal Surface:
[2] Ventral Surface: } 1 = SMOOTH 2 = PUBESCENT

[1] Color: 1 = LIGHT GREEN 2 = GRAY GREEN 3 = MEDIUM GREEN 4 = DARK GREEN

9. FLOWER *(At first fruit set):*

[0][4] Staminate: CM. ACROSS [0][0] Perfect: CM. ACROSS [1] Color: 1 = LEMON YELLOW 2 = YELLOW 3 = ORANGE

4

FORM GR-470-19 (REVERSE)

10. MATURE FRUIT:

[1] 1 = ROUND 2 = OVAL 3 = CYLINDRICAL [36] CM. LONG [30] CM. DIAMETER AT MIDSECTION

[19] KG. AVERAGE WEIGHT [12] INDEX = LENGTH ÷ DIAMETER X 10

[2] 1 = SMOOTH 2 = SLIGHTLY GROOVED 3 = DEEPLY GROOVED

[2] Color: 1 = SOLID *(One color)* 2 = STRIPE 3 = MOTTLE/NET

[3] Primary Color: 1 = YELLOW GREEN *(Desert King)* 2 = LIGHT GREEN *(Charleston Grey)* 3 = MEDIUM GREEN *(Sugar Baby)*

[4] Secondary Color: 4 = DARK GREEN *(Florida Giant)* 5 = OTHER *(Specify)* _____

11. RIND:

[3] 1 = TENDER 2 = BRITTLE 3 = TOUGH [06] THICKNESS MM. BLOSSOM END

[20] THICKNESS MM. SIDES

12. FLESH:

[1] 1 = CRISP 2 = SOFT [2] 1 = COARSE-FIBROUS 2 = FINE-LITTLE FIBER

[4] Color: 1 = YELLOW 2 = ORANGE 3 = PINK 4 = RED 5 = DARK RED

[11] REFRACTOMETER % SOLUBLE SOLIDS OF JUICE *(Center of fruit)* [10] % CHECK VARIETY *(Specify)* charleston grey

[001] % HOLLOW HEART [038] % PLACENTAL SEPARATION [002] % TRANSVERSE CRACK

13. SEED:

[10] MM. LONG [05] MM. WIDE [02] MM. THICK

[20] INDEX ÷ LENGTH ÷ WIDTH X 10 [61] GM. PER 1000 SEED [396] NO. SEED PER FRUIT

[08] Color: 1 = WHITE 2 = WHITE-TAN TIPPED 3 = WHITE-PINK TIPPED 4 = TAN 5 = GREEN
6 = RED 7 = DARK BROWN 8 = DARK BROWN MOTTLED 9 = BLACK 10 = MOTTLED BLACK

14. DISEASE RESISTANCE: (0 = Untested, 1 = Susceptible, 2 = Resistant)

[0] ANTHRACNOSE *(Race_____)* [0] DOWNY MILDEW [0] FUSARIUM WILT [0] GUMMY STEM BLIGHT

[0] SQUASH MOSAIC [0] WATERMELON MOSAIC [0] POWDERY MILDEW [0] CUCUMBER MOSAIC

[0] OTHER *(Specify)* _____

15. OTHER RESISTANCE: (0 = Untested, 1 = Susceptible, 2 = Resistant)

[0] SUNBURN [0] ROOT KNOT [0] OTHER *(Specify)* _____

16. NAME A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

Days maturity	Jubilee	Fruit shape	Black Diamond
Plant vigor	Black Diamond	Rind color	Congo
Fruit Size	Black Diamond	Flesh quality	Crimson Sweet

REFERENCES:

1. Frey, K. J. 1966. Plant Breeding - Symposium. 1 ed. Iowa State University Press.
2. Ware, G. W. and McCollum, J. P. 1968. Producing Vegetable Crops. Interstate Printers & Publishers, Inc. Danville, Illinois.
3. Whitaker, T. W. and Davis, G. N. 1962. Cucurbits. Interscience Publishers, Inc. New York.
4. Nickerson's or any recognized color fan should be used to determine the plant colors of the described variety.