No. 7700001

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Reza Kavianian

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

MUSKMELON

'Kavamelon'

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* 7th *day of* December *in the year of our Lord one thousand nine hundred and* seventy-seven

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

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: Kavamelon	1b. VARIETY NAME: Kavamelon	FOR OFFICIAL USE ONLY — PV NUMBER: 7700001
2. KIND NAME: Muskmelon	3. GENUS AND SPECIES NAME: Cucumis melo	FILING DATE: 10/4/76 — TIME: 4:00 P.M.
4. FAMILY NAME (BOTANICAL): Cucurbitaceae	5. DATE OF DETERMINATION: July, 1975	FEE RECEIVED: $ 250.00 / $ 250.00 / $ 250.00 — DATE: 10-4-76 / 3-18-77 / 10-11-77
6. NAME OF APPLICANT(S): Reza Kavianian	7. ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*): ~~Box 291~~ ~~Rt. 2~~ ~~Delano, CA 93215~~ 2209 WESTMORELAND ROAD IMPERIAL, CALIF. 92251	8. TELEPHONE AREA CODE AND NUMBER: 805/725-5932
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

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

~~Charles W. Basham~~
~~Department of Horticulture~~
~~Colorado State University~~
~~Fort Collins, CO 80523~~

REZA KAVIANIAN
P.O. BOX 74
RICHGROVE, CALIF. 93261

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

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

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? [XX] 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.

Sept 28, 1976 (DATE) — Reza Kavianian (SIGNATURE OF APPLICANT)

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(DATE) — (SIGNATURE OF APPLICANT)

Exhibit A, Origin and breeding history of the variety (Kavamelon).

Kavamelon originated in Iran and the breeding history is not known. It is a stable, true-breeding selection from Iranian muskmelons. Variation noted in fruit size (30-50 cm in length) is due to environment rather than genetic variation. Rind netting varies from sparse to nearly abundant but is never absent.

REVISED EXHIBIT B

MELON CHARACTERISTICS							
Type	Average Weight (pounds)	Average Length (inches)	Growing Season (days)	Seed Distribution	Shelf Life in Refrigerated Days	Percent of Sugar Content	Texture
1. Persian melon	6-7	6-7 globular	100-110	Clustered at center	10-20	10-11	ORANGE FLESH A/S Smooth distinctive bland flavor
2. Santa Claus melon	8-9	10-12	110-120	Clustered at center	Can be stored for late season use	12	Thick white juicy
3. Honey Dew melon	6-7	6-8	110-115	Clustered at center	Can be stored for late season use	12	Green juicy sweet tender
4. Kavamelon	10-12	12-14 eliptic	110-120	Clustered at center	30-60	12-16	Green juicy sweet crisp, like watermelon

In addition, Kavamelon maintains a skin similar to cantaloupe PMR-45, but nettings are thinner, and not as heavy as PMR-45.

MUSK MELON
(Cucumis melo)

7700001

EXHIBIT C

1. AREA OF BEST ADAPTATION IN U.S.A.
[3] 1=Southeast 2=Northeast/Northcentral 3=Southwest 4=Most areas

2. MATURITY (FROM SEEDING TO HARVEST):
[ ][ ] No. Days Earlier Than... [ ]
[1][0] No. Days Later Than..... [4]
1=Fordhook Gem (early)
2=Delicious 51 (midseason)
3=Honey Dew (late)
4=Other (specify) PMR 45

3. PLANT:
[1] 1=Andromonoecious 2=Monoecious 3=Other (specify) _____
[1] 1=Vine 2=Semi-bush 3=Bush

4. LEAF (MATURE BLADE):
[3] Shape: 1=Orbicular 2=Ovate 3=Reniform
[1] 1=Not lobed 2=Shallowly lobed [2] 1=Lt.green 2=Med.green 3=Dk.green
[1][2][0] mm Length [1][7][0] mm Width Surface: [1] 1=Pubescent 2=Glabrous

5. FRUIT (AT EDIBLE MATURITY):
[4][0] cm Length [1][4] cm Diameter [ ][ ][ ][ ] gm Weight
[4] Shape: 1=Oblate 2=Oval 3=Round 4=Elongate-cylindrical 5=Spindle
[2] Surface: 1=Smooth 2=Netted 3=Corrugated 4=Warted
[1] Blossom Scar: 1=Obscure 2=Conspicous
[2] Ribs: 1=Absent 2=Slightly Prominent 3=Very Prominent
[1][0] No. Ribs Per Fruit [0][5][0] mm Rib Width at Medial
[2] Shipping Quality 1=Poor (Home Garden) 2=Fair (Short Distance Shipping)
3=Excellent (Long Distance Shipping)
[2] Fruit Abscise: 1=When Ripe 2=When Overripe 3=Do Not Absciss

6. RIND NET:
[2] 1=Absent 2=Sparse 3=Abundant
[2] Distribution: 1=Spotty 2=Covers Entire Fruit
[2] Coarseness: 1=Fine 2=Medium Coarse 3=Very Coarse
[3] Interlacing: 1=None 2=Some 3=Complete
[1] Interstices: 1=Shallow 2=Medium Deep 3=Deep

7. RIND COLOR (AT EDIBLE MATURITY):
Colors: (Select two when necessary, i.e., creamy yellow [0][2][0][4])
01=White 02=Cream 03=Buff 04=Yellow
05=Gold 06=Green 07=Orange 08=Bronze
09=Brown 10=Gray 11=Black 12=Other(specify) _____

Pattern: 1=Solid (one color) 2=Mottled
[ ][ ][0][3] Primary Color
[ ][ ][1][0] Net Color
[ ][ ][ ][ ] Mottling Color
[ ][ ][ ][ ] Furrow (Suture) Color

RIND COLOR (AT FULL MATURITY):
[ ] Pattern: 1=Solid (one color) 2=Mottled
[ ][ ][0][5] Primary Color
[ ][ ][1][0] Net Color
[ ][ ][ ][ ] Mottling Color
[ ][ ][ ][ ] Furrow (Suture) Color

8. FLESH (AT EDIBLE MATURITY):

Colors: (Select two when necessary, i.e., creamy yellow [2][3]
1=White 2=Cream 3=Yellow 4=Green 5=Orange 6=Salmon 7=Pink
8=Other (Specify) pale green

EXHIBIT C

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[1] Color Near Cavity [8] Color in Center [4] Color Near Rind
[14] Refractometer % Soluable Solids (Center of Flesh)
[12] % Check Variety (Specify) Imperial 45
[2] Aroma: 1=Absent 2=Faint 3=Strong
[1] Flavor: 1=Mild 2=Somewhat Spicy 3=Very Spicy

9. SEED CAVITY:
3[0][0] mm Length [6][5] mm Width
[1] Shape in X-section: 1=Circular 2=Triangular

10. SEEDS:
[3][0][0] No. Per Fruit [0][6][2] Gm Per 1,000

11. DISEASE RESISTANCE*: (0=Untested, 1=Susceptible, 2=Resistant)
[0] Bacterial Wilt / [X] Verticillum Wilt [X] Fusarium Wilt
/ [X] Powdery Mildew / [X] Downy Mildew / [X] Squash Mosaic
RS/ [X] Watermelon Mosaic / [0] Cucumber Mosaic [0] Melon Rust
[0] Anthracnose [0] Crown Blight [0] Scab
[0] Root Rot [0] Sulphur Burn [0] Root Knot (Nematode)

* State Genus, Species, and Races When Known, Under Item 14 Below.

12. INSECT RESISTANCE: (0=Untested, 1=Susceptible, 2=Resistant)
[0] Aphid [0] Western Spotted Cucumber Beetle
[0] Banded Cucumber Beetle [0] Western Striped Cucumber Beetle
[0] Melon Leafhopper [0] Melon Leafminer [0] Darkling Ground-Beetle
[0] Pickle Worm [0] Melon Worm [0] Mite

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

Days Maturity		Fruit Shape	
Plant Vigor		Rind Color	
Fruit Size		Flesh Quality	

14. ADDITIONAL INFORMATION AND COMMENTS:

Exhibit 13D, Additional description of the variety (Kavamelon).

Kavamelon is a muskmelon, Cucumis melo L. Stems are 5 angled, decumbent, trailing. Primary branches are produced beginning at the second node. Secondary branches arise in the axils of leaves on the primarly branches. Staminate flowers are born at most nodes, in clusters of 3, 4, or 5. At other nodes on primary or seconday branches single hermaphroditic flowers are produced. The plant is andromonoecious. The ovary of hermaphroditic flowers is 20 to 30 mm long, densely pubescent with hairs about 4 mm long. Simple tendrils, commonly 10 cm long are born laterally at leaf axils. Petioles are prominently creased on the dorsal surface. The leaf is cordate when young, reniform at maturity. Leaf margins are dentate. Leaf bases are cordate with large sinuses. Leaves are not lobed or prominently angled. Fruits are elongate-cylindrical with some spindle shaped. Rind net is coarse covering entire fruit surface except the sutures. The seed cavity is circular tending to triangular. Fruit aroma is faint rather than pronounced. Ground color of the fruit is green turning to buff or cream with maturation. Interior color of ripe fruit is white near the seed cavity to green near the rind. The fruit abcises when overripe.

FORM GR-470 (Reverse)

U. S. DEP. ... RECEIVED OCT 4 1976 ... GRAIN ... PVPO

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, National Agricultural Library, Beltsville, Maryland 20705. (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 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give (1), the genealogy, including public and commerical varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)