No. 7300056

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Research Corporation

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.)

SQUASH

'Table King'

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* 13th *day of* July *in the year of our Lord one thousand nine hundred and* seventy-eight

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

CONSUMER AND MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	FOR OFFICIAL USE ONLY	
TABLE KING	Winter Squash	PVPO NUMBER 73056	
3. GENUS AND SPECIES NAME	4. FAMILY NAME *(Botanical)* Cucurbitaceae	FILING DATE 2-15-73	TIME 3:30 P.M.
Cucurbita Pepo	5. DATE OF DETERMINATION 1970	FEE RECEIVED $750.00	CHARGES $750.00

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
Research Corporation	405 Lexington Avenue, New York, New York	212-Yu6-6622

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. STATE OF INCORPORATION	11. DATE OF INCORPORATION
Non-Profit Corporation	New York	Feb. 26, 1912*

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

Omri M. Behr
~~10 Commerce Ct.~~
~~Newark, N. J. 07102~~
SUITE 300
221 NASSAU STREET
PRINCETON, N. J. 08540

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
- [ ] 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] NO N/S

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 9, 1973
(DATE)

Research Corporation
By: Willard Marcy
(SIGNATURE OF APPLICANT)
Willard Marcy
Vice President

(DATE)

(SIGNATURE OF APPLICANT)

* Confirmed by Laws of New York Chapter 523, March 30, 1932

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EXHIBIT A

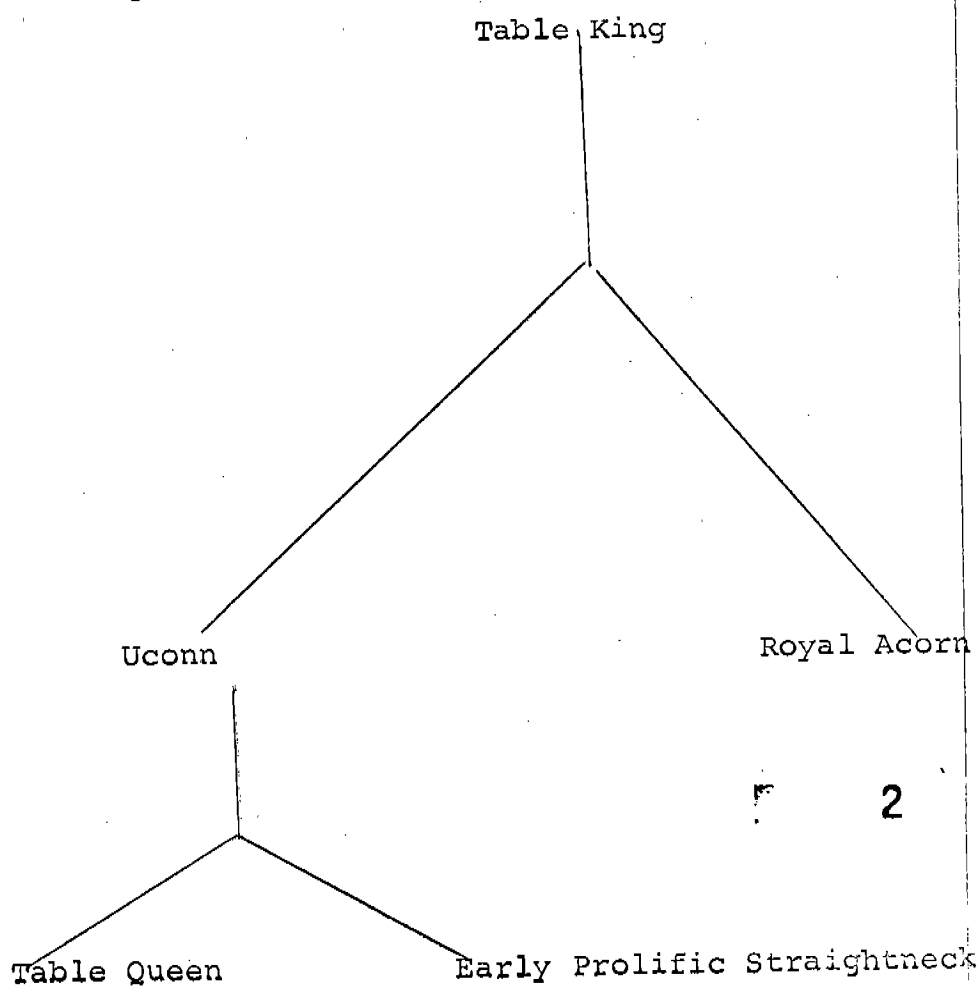
The ancestry of Table King is set forth below and illustrated by the "family tree."

Table Queen - This variety is a green acorn vine squash catalogued by the Iowa Seed Co., Des Moines, Iowa in 1913. Geo. F. Will of Bismark, North Dakota, has reported that the Arikava tribe of Indians "grew a black heart shaped squash very similar in appearance to Table Queen but not its equal in quality." The fruit is 5" long by 4" wide.

Early Prolific Straightneck - This variety is a yellow straightneck, bush, summer squash developed by Ferry-Morse plant breeders who "removed the crook, which made packing difficult, and the unattractive 'Wart" from summer squash. Introduced in 1938, . . .".

Uconn - Uconn developed at the University of Connecticut and introduced in 1951 is a bush, green acorn squash.

Royal Acorn - This variety is a large green fruited vine acorn measuring 7½" long by 6" wide.



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The initial hybrid was produced by cross pollination.

The initial hybrid generations were selected principally for bush habit of growth rather than vine habit, and within this grouping for desirable fruit character. These may be summarized as follows.

An objective description of the Bush Acorn Squash would stress its true bush habit which measures 4 to 4½ feet in diameter with a height of 30 inches. The fruit with pronounced but not deep ridging measures 4½ to 6 inches in length and 4¼ to 5¼ inches in width and weighing 1¼ to 1½ pounds per fruit. The fruit color measured by the Fisher Color Chart[1] is darker than Blue-green (1). The flesh of good flavor is Yellow-orange (3) as measured by the Fisher Color Chart[1]. The flavor was judged to be good in tests carried out by the All-America Selections judges. Maturity of this variety is early falling in the 70-75 day range.

1. Fisher Color Chart. Revised. Copyright 1944. The new England Gladiolus Society, Inc., Boston, Massachusetts.

No varients are noted during reproduction.

After six generations of selection, after initial hybridization three succeeding generations of seed have bred true with no futher change.

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EXHIBIT B

From the botanical standpoint, shortly after the seedling stage the vine types begin to show their vine habit, while the bush types remain compact because of the shortened internodes. Two so called bush type acorn squash are presently on the market, Table Queen Bush and Bush Ebony. Both are classed by their introducers as semi-bush types. The fruit of Table Queen Bush is smaller and proportionately narrower with deeper ridging. The fruit of Bush Ebony is lighter and somewhat more blue.

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TIME OF FLOWER ANTHESIS

The purpose of this test is to measure the time of flower anthesis (opening) for both the separate male and female flowers which occur on the same plant from the time of planting (May 25, 1977) in the greenhouse. Field planting was made on June 7, 1977.

i. Female: 'TABLE KING' 52.5 days
BURPEE'S 'TABLE QUEEN' 61.5 days
Means significant difference at 1%

The actual measurements are set forth on Exhibit A.

ii. Male: 'TABLE KING' 52.8 days
BURPEE'S 'TABLE QUEEN' 53.9 days
Means significant difference at 1%

The actual measurements are set forth on Exhibit B.

The mean, variance, standard deviation and standard error for flower anthesis of 'TABLE KING' AND BURPEE'S 'TABLE QUEEN' are set forth on EXHIBITS C and D, respectively.

WEIGHT OF FRUIT IN GRAMS

Mean of each fruit
'TABLE QUEEN' 515.644
BURPEE'S 'TABLE KING' 700.355
Means significant difference at 1%

Summary: The mean weight of each 'TABLE KING' fruit is greater than that of BURPEE'S 'TABLE QUEEN' and statistically the result is highly significant.

The supporting data for these results is set forth in Exhibit E, made a part hereof.

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LENGTH OF FRUIT IN CENTIMETERS

Mean of each fruit

'BURPEE'S 'TABLE QUEEN' 11.858

'TABLE KING' 12.655

Means significant difference at 1%

Summary: The mean length of each 'TABLE KING' fruit is greater than that of 'BURPEE'S 'TABLE QUEEN' and statistically the result is highly significant.

The supporting data for these results is set forth in Exhibit F made a part hereof.

WIDTH OF FRUIT IN CENTIMETERS

Mean of each fruit

'BURPEE'S 'TABLE QUEEN' 9.753

'TABLE KING' 10.935

Means significant difference at 1%

Summary: The mean width of each 'TABLE KING' fruit is greater than that of 'BURPEE'S 'TABLE QUEEN' and statistically the result is highly significant.

The supporting data for these results is set forth in Exhibit G made a part hereof.

FRUIT WEIGHT IN GRAMS

Mean of each fruit for each plant

'BURPEE'S 'TABLE QUEEN' 520.118

'TABLE KING' 713.373

$F = 28.237$ $P < .01$

Summary: The mean weight of each fruit for each plant of 'TABLE KING' is greater than that for 'BURPEE'S 'TABLE QUEEN' and statistically the difference is highly significant.

The supporting data for these results is set forth in Exhibit H made a part hereof.

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FRUIT LENGTH IN CENTIMETERS

Mean of each fruit for each plant

'BURPEE'S 'TABLE QUEEN' 11.898

'TABLE KING' 12.746

F = 7.872 P .01

Summary: The mean length of each fruit for each plant of 'TABLE KING' is greater than that for 'BURPEE'S 'TABLE QUEEN' and statistically the difference is highly significant.

The supporting data for these results is set forth in Exhibit I made a part hereof.

FRUIT WIDTH IN CENTIMETERS

Mean of each fruit for each plant

'BURPEE'S 'TABLE QUEEN' 9.790

'TABLE KING' 11,010

F = 25.859 P .01

Summary: The mean width of each fruit for each plant of 'TABLE KING' is greater than that for 'BURPEE'S 'TABLE QUEEN' and statistically the difference is highly significant.

The supporting data for these results is set forth in Exhibit J made a part hereof.

Index numbers were assigned to each fruit by incorporating all three units of measure (weight, length and width) in the test where I = wt/l x w (Index = weight/length x width).

Mean of each fruit

'BURPEE'S 'TABLE QUEEN' 4.415

'TABLE KING' 4.986

Means significant difference at 1%

Summary: The mean index number of each fruit for 'TABLE KING' is greater than that for 'BURPEE'S 'TABLE QUEEN' and statistically the difference is highly significant.

The supporting data for these results is set forth in Exhibit K made a part hereof.

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EXHIBIT "E"

Applicant is the Assignee of the University of Connecticut which in turn is the employer and Assignee of the breeder, Mr. John Scarchuk, who is an instructor in the Department of Plant Science of the University of Connecticut.

A copy of the Assignment to Applicant is attached hereto.

RESEARCH CORPORATION

By Willard Marcy
Willard Marcy
Vice President

DATE: February 9, 1973

RJS:IR 1/24/73

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A S S I G N M E N T

WHEREAS, JOHN M. SCARCHUK of the Town of Coventry, County of Tolland, State of Connecticut, is the breeder of a novel variety of sexually reproduced plant who has so reproduced said variety designated TABLE KING variety of acorn squash; and

WHEREAS, the UNIVERSITY OF CONNECTICUT, an educational institution duly organized and existing under and by virtue of the laws of the State of Connecticut, acting pursuant to Sections 10-119, 10-120 and 10-126 of the General Statutes, and herein termed "UNIVERSITY", is entitled to certain rights therein; and

WHEREAS, UNIVERSITY is desirous of acquiring said certain rights, and of thereupon assigning and transferring such rights to RESEARCH CORPORATION, a New York nonprofit corporation with offices at 405 Lexington Avenue, New York, New York 10017, and herein termed "RESEARCH", which is desirous of acquiring the same, under the terms and conditions of an agreement dated the 1st day of November 1954, between THE RESEARCH FOUNDATION of THE UNIVERSITY OF CONNECTICUT and RESEARCH hereby incorporated and made a part of this assignment.

NOW, THEREFORE, in consideration of one dollar in hand paid and other good and valuable consideration by UNIVERSITY to said JOHN M. SCARCHUK, the receipt of which is hereby acknowledged, and in consideration of one dollar thereupon in hand paid and other good and valuable consideration by RESEARCH to UNIVERSITY, the receipt of which is hereby acknowledged, said JOHN M. SCARCHUK has agreed to and by these presents does

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hereby sell, assign and transfer unto said UNIVERSITY and said UNIVERSITY has agreed to thereupon and effective immediately thereafter to and by these presents does sell, assign and transfer unto said RESEARCH the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to said novel variety, including the right to apply to the United States Plant Variety Protection Office of the Department of Agriculture for a Certificate of Plant Variety Protection therefor, and any and all corresponding certificates for protection in any other country, and in patents (including extensions thereof) of any country, which have been or may be granted on said novel variety or any part thereof, or on said application or any divisional, substitute, continuation, renewal, reissue or other patent or other application for protection based in-whole or in-part thereon, or based upon said novel variety;

TO BE HELD AND ENJOYED by said UNIVERSITY and then by said RESEARCH, its successors and assigns, to the full ends of the respective terms for which said Certificate of Plant Variety Protection or patents or any of them have been or may be granted as fully and entirely as the same would have been held and enjoyed by said JOHN M. SCARCHUK and then by UNIVERSITY had no sale and assignment of said interest been made;

AND JOHN M. SCARCHUK and UNIVERSITY do severally and seriatim hereby authorize the Plant Variety Protection Office of the United States of America to issue any and all Plant Variety Protection Certificates which may be granted upon said

RJS:IR 1/25/73

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otherwise encumbered, and that no instrument in conflict herewith has been executed or shall be executed by said JOHN M. SCARCHUK or by UNIVERSITY;

AND RESEARCH accepts said novel variety of acorn squash as an invention pursuant to the aforesaid agreement between THE RESEARCH FOUNDATION of THE UNIVERSITY OF CONNECTICUT and RESEARCH and agrees to perform RESEARCH's Duties as set forth in said agreement, including payment to UNIVERSITY, its successors and assigns, of the moneys specified in Paragraph II.(5) of said agreement, under the terms and conditions specified therein, and agrees that the terms"patents" and "patent applications" as used in said subparagraph II.(5) shall include any Certificate of Plant Variety Protection or application for such Certificate based upon said novel variety.

Executed this 31 day of January 1973.

John M. Scarchuk

John M. Scarchuk

STATE OF CONNECTICUT)
) ss.
COUNTY OF Tolland)

On this 31 day of January 1973, personally appeared the above-named JOHN M. SCARCHUK, personally known to me and known by me to be the one who executed the foregoing instrument, and subscribed the same in my presence, and acknowledged the same to be his free act and deed, before me.

Notary Public

My commission expires: 4/1/76

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novel variety or any part thereof, to said RESEARCH;

AND said JOHN M. SCARCHUK does agree for himself and his heirs, executors and administrators and said UNIVERSITY agrees for itself, its successors and assigns, to execute without further consideration any further lawful documents and any further assurances, and any divisional, substitute, continuation-in-whole, renewal, reissue, or other applications for plant variety protection certificates or patents of any country that might be deemed necessary by said RESEARCH fully to secure to said RESEARCH its interest as aforesaid in and to said novel variety or any part thereof, and in and to said several certificates or patents or any of them and said JOHN M. SCARCHUK and UNIVERSITY further agree to cooperate with RESEARCH in making available such sample or samples of basic seed necessary for propagation of said novel variety as is or may be required by RESEARCH to file for or maintain any such certificates or patents;

AND said JOHN M. SCARCHUK does covenant for himself and his legal representatives, and agree with said UNIVERSITY its successors and assigns, and said UNIVERSITY with said RESEARCH, its successors and assigns, that no right or license has been granted to anyone to sell, offer for sale, reproduce, import, export, or use such novel variety in producing (as distinguished from developing) a hybrid or different variety therefrom, and that prior to the execution of this assignment, the right, title and interest in said invention had not been

RJS:IR 1/25/73

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Executed this 29 day of January, 1973.

UNIVERSITY OF CONNECTICUT

Attest:

(title;seal)
UNIVERSITY REGISTRAR

By _____
(title)
Vice President for Financial Affairs

STATE OF CONNECTICUT)
) ss.
COUNTY OF Tolland)

On this 29 day of January, 1973, before me personally came _____, to me known, who being by me duly sworn, did depose and say that he resides at _____, that he is the _____ of the UNIVERSITY OF CONNECTICUT, the institution described in and which executed the foregoing instrument; that he knows the seal of said institution; that the seal affixed to said instrument is such seal; that it was so affixed by order of the Trustees of said institution, and that he signed his name thereto by like order.

_____
Notary Public

My commission expires: 1/1/76

Executed this 2nd day of February, 1973.

RESEARCH CORPORATION

Attest:

Assistant Secretary

By _____
Vice President

STATE OF NEW YORK)
) ss.
COUNTY OF New York)

On this 2nd day of February, 1973, before me personally came WILLARD MARCY, to me known, who being by me duly sworn, did depose and say that he resides at 3 Priory Lane, Pelham Manor, N. Y. 10803, that he is the Vice President of RESEARCH CORPORATION, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Directors of said corporation, and that he signed his name thereto by like order.

_____
Notary Public

My commission expires:

NANCY VAN DYKE
Notary Public, State of New York
No. 60-9435315
Qualified in Westchester County
Certificate filed in New York County
Commission Expires March 30, 1974

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EXHIBIT D

RC 3.0-043

Mr. S. F. Rollin
Commissioner
Plant Variety Protection Office
United States Department of Agriculture
Agricultural Marketing Service
Grain Division
National Agricultural Library
Beltsville, Maryland 20705

Subject: Squash Application No. 73056
"TABLE KING"

Dear Mr. Rollin:

This is in response to the request of 11 January 1977 for more detailed information differentiating the claimed novel variety from the closest known variety. Applicant has grown the claimed variety under the same conditions as the closesst variety -- namely, BURPEE'S TABLE QUEEN --and has found significant differences. These differences are summarized below. As requested, the statistical bases for these conclusions are attached as Exhibits.

COLOR DIFFERENCE

In comparing color difference, the following dictionary of color was used:

Maerz A. and M. Rea Paul. 1930. A dictionary of color. McGraw-Hill, N.Y.

The color samples which most nearly represent the color of the squash fruit are:

'Table King - Plate 24, A 12

BURPEE'S 'Table Queen - Plate 24, A 10

SURFACE TEXTURE

In appearance 'TABLE KING' is appreciably smoother than BURPEE'S 'TABLE QUEEN'. In feel, by rubbing one's finger over the surface, 'TABLE KING' is appreciably smoother than BURPEE'S 'TABLE QUEEN'. Twenty randomly selected fruits were used in the test.

RC3.0.-043 Scarchuk Cert# 73056

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-20
(12-16-74)

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

EXHIBIT C
(Pumpkin/
Squash/Gourd)

OBJECTIVE DESCRIPTION OF VARIETY

PUMPKIN/SQUASH/GOURD (*CUCURBITA SPP.*)

NAME OF APPLICANT(S)
Research Corporation

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)
405 Lexington ave New York NY 10017:
AGENTfor Correspondence: Omri M Behr
221 Nassau St., Princeton NJ 08540

VARIETY NAME OR TEMPORARY DESIGNATION
Table King Squash

FOR OFFICIAL USE ONLY
PVPO NUMBER
73056

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:

[5] 1 = LAGENARIA 2 = MAXIMA 3 = MIXTA 4 = MOSCHATA 5 = PEPO 6 = OTHER (*Specify*) _____

2. KIND (According to use):

[2] 1 = PUMPKIN 2 = SQUASH 3 = GOURD

3. TYPE:

[2] 1 = SUMMER (Vegetable Marrow) 2 = WINTER (Boston Marrow)

4. COTYLEDON:

[0][3][6] MM. LONG [0][1][9] MM. WIDE

[2] Apex: 1 = TAPERED 2 = ROUNDED 3 = NOTCHED [2] Veining: 1 = OBSCURE 2 = PLAINLY VISIBLE 3 = PROMINENT

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

5. PLANT:

[1] 1 = BUSH 2 = SEMI-BUSH 3 = LONG VINES [2] 1 = PILOSE 2 = PRICKLY 3 = GLABROUS

6. MAIN STEM:

[1] 1 = ROUND 2 = ANGLED [0][3][1] MM. DIAMETER AT MID-POINT OF FIRST INTERNODE [0][8][2] CM. AVERAGE LENGTH

[3][5] AVERAGE NUMBER OF INTERNODES

7. LEAVES:

[1] Shape: 1 = OVATE 2 = ORBICULAR 3 = RENIFORM 4 = RETUSE [3] Shape: 1 = NOT LOBED 2 = SHALLOW LOBED 3 = DEEP LOBED

[2] Margin: 1 = ENTIRE 2 = DENTICULATE 3 = DENTATE [1] Margin: 1 = FLAT 2 = FRILLED

[4][0] CM. WIDE [3][4] CM. LONG [1] Surface: 1 = SMOOTH 2 = BLISTERED

[2] Dorsal Surface:
[3] Ventral Surface:
} 1 = GLABROUS 2 = SOFT HAIRY 3 = BRISTLED

[3] 1 = LIGHT GREEN 2 = GRAY-GREEN 3 = MEDIUM GREEN 4 = DARK GREEN [1] 1 = NOT BLOTCHED 2 = BLOTCHED WITH GRAY

[3][9] CM. PETIOLE LENGTH

8a. FLOWER - Pistillate:

[1][6] CM. DIAMETER [3] Ovary: 1 = DRUM-LIKE 2 = TURBINATE 3 = FUSIFORM [5.6] Pedicel: CM. LENGTH

[1] Margin: 1 = STRAIGHT 2 = CURVED [1] Margin: 1 = PLAIN 2 = FRILLED [0][2] Sepals: MM. WIDTH [5][5] Sepals: MM. LENGTH

[4] Color: 1 = WHITE 2 = LEMON YELLOW 3 = MID-YELLOW 4 = DEEP YELLOW 5 = ORANGE

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[2] Texture: 1 = FINE 2 = GRANULAR 3 = LUMPY 4 = STRINGY

[2] Texture: 1 = SOFT 2 = FIRM 3 = BRITTLE

[1] Texture: 1 = DRY 2 = MOIST 3 = JUICY

[2] Flavor: 1 = INSIPID 2 = SLIGHTLY SWEET 3 = SWEET

[3] Quality: 1 = INEDIBLE 2 = GOOD 3 = EXCELLENT

[0 3 0 8] Color: (Choose from rind colors above)

12. SEED CAVITY: (Sectioned apex to base)

[0 8] CM LENGTH

[0 6] CM WIDTH

[1] Location: 1 = CONFORMS TO FRUIT SHAPE 2 = NEAR APEX 3 = APEX ONLY

[2] Placental Tissue: 1 = SPARSE 2 = MODERATELY ABUNDANT 3 = ABUNDANT

[2] Center Core: 1 = INCONSPICUOUS 2 = PROMINANT

13. FRUIT STALKS

[0 6] CM LENGTH

[0 1] CM DIAMETER

[2] 1 = ROUND 2 = IRREGULAR

[1] 1 = NOT TWISTED 2 = TWISTED

[1] 1 = NOT TAPERED 2 = TAPERED

[3] 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED

[3] Texture: 1 = SOFT 2 = SPONGY 3 = HARD

[3] Farrows: 1 = NONE 2 = SHALLOW 3 = DEEP

[3] Surface: 1 = SMOOTH 2 = ROUGH 3 = SPINY

[3] Attachment End: 1 = NOT EXPANDED 2 = SLIGHTLY EXPANDED 3 = EXPANDED

[2] Detaches: 1 = EASILY 2 = WITH DIFFICULTY

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

14. SEEDS

[1 4] MM LENGTH

[0 8.5] MM WIDTH

[0 2] MM THICKNESS

[1] Face Surface: 1 = SMOOTH 2 = WRINKLED 3 = SLIGHTLY PITTED 4 = SCALY 5 = CREASED

[3] Color: 1 = WHITE 2 = CREAM 3 = BUFF 4 = BROWN

[1] Luster: 1 = DULL 2 = GLOSSY

[1] Margin: 1 = STRAIGHT 2 = CURVED 3 = TWISTED

[1] Margin: 1 = ROUNDED 2 = WEDGE-LIKE

[2] Separation from pulp: 1 = EASY 2 = MODERATELY EASY 3 = DIFFICULT

[1 1] GMS PER 100 SEEDS

[2 6 0] NO. SEEDS PER FRUIT

[1] 1 = NORMAL 2 = NAKED

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

[0] POWDERY MILDEW

[0] CUCUMBER MOSAIC

[0] SQUASH MOSAIC

[0] WATERMELON MOSAIC

[ ] OTHER (Specify) _____

16. INSECT RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant

[0] SQUASH BUG

[0] SQUASH BORER

[ ] OTHER (Speicfy) _____

17. INDICATE A VARIETY MOST CLOSELY RESEMBLING THAT SUBMITTED FOR EACH CHARACTER

CHARACTER	VARIETY	CHARACTER	VARIETY
PLANT HABIT		FRUIT SHAPE	
LEAF TYPE		FRUIT COLOR	
FLOWER TYPE		CULINARY TYPE	

REFERENCES

1. Currence, T. M. 1954. Vegetable Crops Breeding, Department of Horticulture, University of Minnesota.
2. Tapley, W.T., Enzie, W.D. and Van Eseltine, G. P., 1937. Vegetables of New York: The Cucurbits 1 (4). J.B. Lyon Company, Albancy, New York.
3. USDA Farmess Bulletin No. 1086. 1969. Growing Pumpkins and Squashes.
4. Whitaker, T.W. and G.N. Davies. Cucurbits. Interscience Publiaations, Inc., New York, N.Y.

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8b. FLOWER - Staminate:

[3 8] Sepals: MM LENGTH [0 2] Sepals: MM WIDTH [1 3] Pedicel: CM LENGTH

[4] Color: 1 = WHITE 2 = LEMON YELLOW 3 = MID-YELLOW 4 = DEEP YELLOW 5 = ORANGE

9. FRUIT (Market Maturity)

[1 4] CM LENGTH [1 0] CM WIDTH (Stem end) [1 1] CM WIDTH (Blossom end) [8 4 3] GM AVERAGE WEIGHT

[1] Shape according to variety type: 1 = ACORN 2 = BANANA 3 = BUTTERCUP 4 = BUTTERNUT 5 = CONNECTICUT FIELD 6 = CROOKNECK 7 = HUBBARD 8 = SCALLOP 9 = STRAIGHTNECK 10 = OTHER (Specify) _____

[4] Apex: 1 = DEPRESSED 2 = FLATTENED

[2] Base: 3 = ROUNDED 4 = TAPER POINTED

[3] Ribs: 1 = NONE 2 = INCONSPICUOUS 3 = PROMINANT

[2] Rib Furrows: 1 = SHALLOW 2 = MEDIUM DEEP [2] Rib Furrows: 1 = NARROW 2 = MEDIUM WIDE 3 = WIDE

[1] Fruit Surface: 1 = SMOOTH 2 = FINE WRINKLE 3 = SHALLOWLY WAVY

[1] Warts: 1 = NONE 2 = FEW 3 = MANY

[3] Blossom Scar Button: 1 = DEPRESSED 2 = SLIGHTLY EXTENDED 3 = RAISED ACORN

10. RIND

[0 1] MM THICKNESS AT MEDIAL [1] 1 = SOFT 2 = HARD 3 = WOODY & TOUGH

[1] COLOR PATTERN: 1 = REGULAR 2 = IRREGULAR

COLORS: (Select two when necessary, i.e. Grayish—Buff) [1 2] [0 4]

01 = WHITE 02 = CREAM 03 = YELLOW 04 = BUFF 05 = BROWN 06 = BRONZE 07 = GREEN 08 = ORANGE
08 = PINK 10 = RED 11 = BLUE 12 = GRAY 13 = BLACK 14 = OTHER (Specify) _____

[1 3] [0 7] SELF OR GROUND

PATTERN:

[ ]	[ ]	STREAKS
[ ]	[ ]	STRIPES
[1 2]	[0 7]	SPOTS
[ ]	[ ]	BLOTCHES
[ ]	[ ]	LACE
[ ]	[ ]	OTHER (Specify) _____

LOCATION OF PATTERN COLORS:

[ ] 1 = NOT SPECIFIC
[ ] 2 = STEM END HALF
[ ] 3 = BLOSSOM END HALF
[4] 4 = ACORN OR TORBAN
[ ] 5 = OTHER (Specify) _____

11. FLESH

[1 7] Thickness: MM BLOSSOM END [2 1] Thickness: MM MEDIAL [2 8] Thickness: MM STEM END