

# THE UNITED SHATES OF ANTERIOR

TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Charles Tateosian

Withereas. 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 exted others from selling the variety, or offering it for sale, or reproducing it, porting it, or exporting it, or using it in producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act 642, as amended, 7 u.s.c. 2321 et seq.)

SQUASH

'Bunutkin'

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 15th day of April in the year of our Lord one thousand nine hundred and eighty-two.

Attest:

Kenneth & Evans

Commissioner

Plant Variety Protection Office

Grain Division

Agricultural Marketing Service

Secretary of Agriculture

Agricultural Marketing Service Livestock, Meat, Grain, and Seed Division National Agricultural Library Building Beltsville, MD. 20705

MAY 2 7 1982

TO

: National Seed Storage Laboratory Fort Collins, CO 80521

SUBJECT

PV#8100039 Squash 'BUNUTRIN' - Charles Tateosian

Attached is the above-identified sample and an Objective Description of Variety form in accordance with our Memorandum of Understanding and as agreed upon during Mr. Leese's visit with Dr. Louis Bass on June 12, 1972.

One copy of this duplicate form showing the result of your germination test on 100 seeds of pure seed of this sample should be returned to this Office. Return of the duplicate form will serve as acknowledgement of receipt of the sample.

GERMINATION:

99 %

DATE: 7/82

Sincerely,

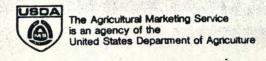
OK-12/5 10/5/82

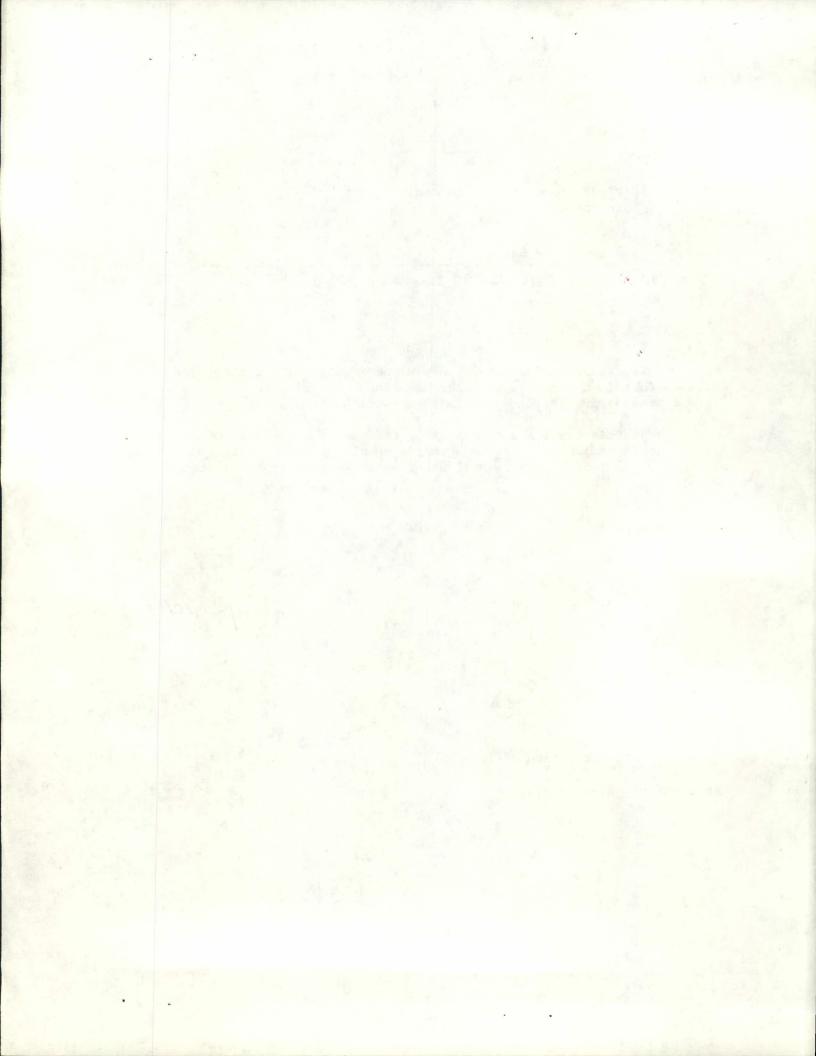
Kenneth H. Evans Acting Commissioner

Plant Variety Protection Office

Attachment: Seed Sample

In duplicate.





### "Bunutkin"

## 13A. Exhibit A.

In 1972, one sport fruit was noted in a planting of Butternut squash.

Seed was saved, planted and field selections made each succeeding year.

No off type fruits have been found since the 1977 crop. All fruits in 1978,

1979, 1980 and 1981 are similar.

Plant growth is uniform. No dwarf, giant, bush type growth or non-fruit bearing plants have been found. Germination, seedling vigor and vining traits appear quite uniform. While taking plant data, no off-type plants were noted in the 1/2 acre block. No plant variation can be recalled.

Cucurbita varieties growing in the area where the sport was found included Thomas Halloween, Connecticut Field, Sugar Pie Pumpkin and Butternut. The species for "Bunutkin" has been identified as moschata by Dr. Ashby M. Rhodes, University of Illinois, Plant Breeder.

RECEIVED

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AMS, LPG&S DIV. PVP0

OF AGRICULTURE

## 13B. Exhibit B. Novelty Statement

A concise summary statement to express the novelty of "Bunutkin" is to say it is the shape of Sugar Pie Pumpkin with the rind color and flesh texture of Butternut.

"Bunutkin" does slightly taper toward the stem and more so than does

Sugar Pie Pumpkin. "Bunutkin" does maintain the square blocky shoulder

with a slightly depressed stem scar like butternut which is unlike Sugar

Pie. The stem attachment is typical of the moschata species which is

unlike Sugar Pie Pumpkin, which is the pepo species. Internally "Bunutkin"

has thicker flesh than does Sugar Pie and the seed cavity is in the bottom

2/3rds of the fruit. Sugar Pie has a rather round seed cavity, whereas

"Bunutkin" has an oblong seed cavity being much wider than high, when

resting on the blossom scar.

"Bunutkin" has the rind color of Butternut but, again, resembles the shape of Sugar Pie. Butternut has a seed cavity in a bulbing base, whereas "Bunutkin" has a similar shaped oblong, wider than high, seed cavity contained within the globular fruit. Seed cavity location of "Bunutkin" and Butternut are similar; however, above the seed cavity in Butternut is a cylindrical body or neck of flesh, whereas in "Bunutkin" the meat has more breadth than height, measuring down from the stem scar. The flesh color of "Bunutkin" more nearly resembles that of Sugar Pie Pumpkin than Butternut squash. The flesh texture is more like Butternut than Sugar Pie. "Bunutkin" has the same culinary purposes as Butternut but the fruit size and shape of Sugar Pie Pumpkin.

BUNUTKIN' 75 MOST SIMILAR TO SUCAR PIE (SMAIL SUCAR) PUMIKIN'
AND BUTTERNUT SQUASH - ACCORDING TO APPLICANTS LETTER OF NOV. 16.1981.

145 11/18/51

RECEIVED SEP SE 1981

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U. S. DEPARTMENT

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AMS, LPG&S DIV. PVP0

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# 13B. Exhibit B. Novelty Statement

"Bunutkin" can best be described as the shape of Sugar Pie Pumpkin and the color of Butternut Squash. Color photographs are enclosed for a visual description.









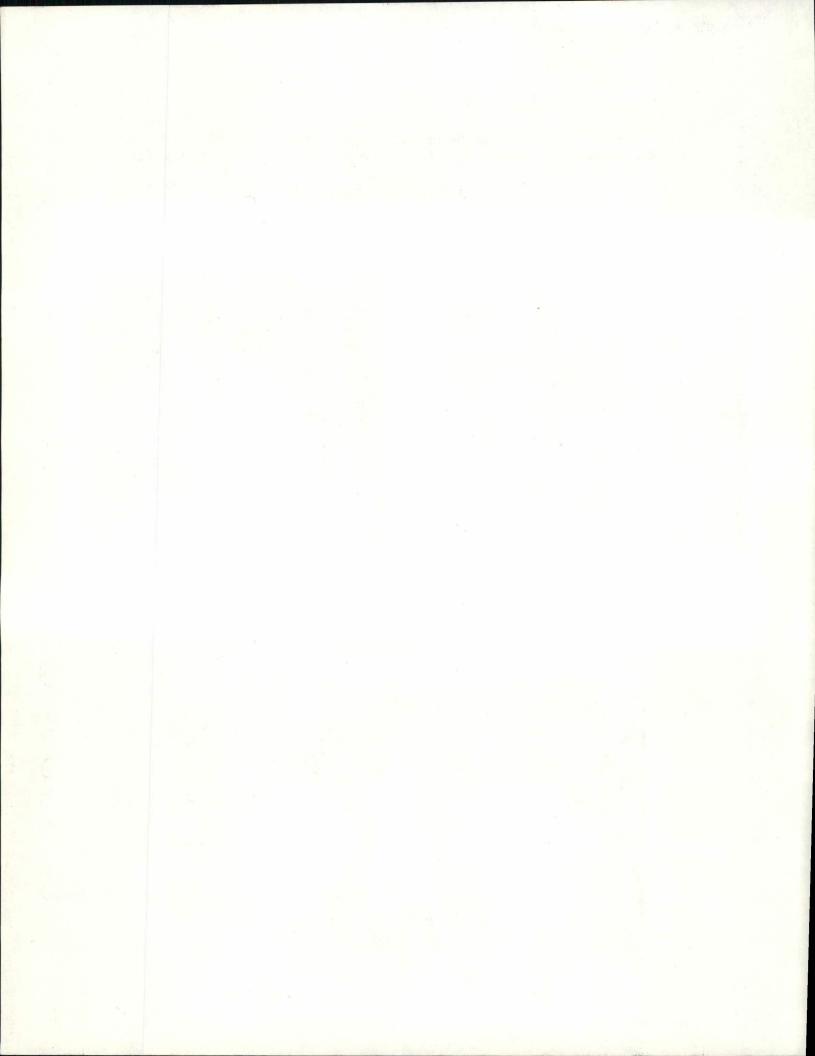
# 13B. Exhibit B. Novelty Statement

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			0100037		
4 Texture: 1 = FINE 2 = 0	GRANULAR 3 = LUMPY	2 Texture: 1 = SOFT 2 =	FIRM 3=BRITTLE		
2 Texture: 1 = DRY 2 = 1	MOIST 3 = JUICY	3 Flavor: 1 = INSIPID 2 =	SLIGHTLY SWEET 3 = SWEET		
Quality: 1 = INEDIBLE	2 = GOOD 3 = EXCELLENT	0 8 Color: (Choo	ose from rind colors above)		
12. SEED CAVITY: (Sectioned apex to base)					
0 6 CM LENGTH		1 1 cm width			
1 = CONFORMS TO FRUIT SHAPE Location: 2 = NEAR APEX 3 = APEX ONLY  1 = SPARSE 2 = MODERATELY ABUNDANT 1 = INCONSPICUOUS 2 = PROMINANT					
13. FRUIT STALKS		MM			
0 6 CM LENGTH		1 5 MM SIAMETER			
2 1 = ROUND 2 = IRREGU	JLAR 1 = NOT TWISTED 2 = TWISTED	2 1 = NOT TAPERED 2 = TAPERED	2 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED		
3 Texture: 1 = SOFT 2	= SPONGY 3 = HARD	2 Farrows: 1 = NONE 2 =	SHALLOW 3 = DEEP		
2 Surface: 1 = SMOOTH 2 = ROUGH 3 = SPINY  3 Attachment End: 1 = NOT EXPANDED 3 = SLIGHTLY EXPANDED 3 = EXPANDED					
2 Detaches: 1 = EASILY 2 = WITH DIFFICULTY 2 Color: 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN					
14. SEEDS					
1 5 MM LENGTH	0 9 mm wi	ртн	0 3 MM THICKNESS		
3 Face Surface: 3 = SLIGHTLY PITTED 4 = SCALY 5 = CREASED  1 = SMOOTH 2 = WRINKLED 4 = SCALY 5 = CREASED  3 = SLIGHTLY PITTED 4 = SCALY 5 = CREASED					
Luster: 1 = DULL 2 = GLOSSY Margin: 1 = STRAIGHT 2 = CURVED 3 = TWISTED					
2 Margin: 1 = ROUNDED 2 = WEDGE-LIKE					
Separation from pulp: 1 = EASY 2 = MODERATELY EASY 2   0   GMS PER 100 SEEDS					
2 9 2 NO. SEEDS PER FRUIT Average of 3 fruits 1 1= NORMAL 2= NAKED					
15. DISEASE RESISTANCE: (O = Not Tested, 1 = Susceptible, 2 = Resistant)					
1 POWDERY MILDEW	0 сисимвея		0 SQUASH MOSAIC		
0 WATERMELON MOSAIC OTHER (Specify)					
16. INSECT RESISTANCE: (O = Not Tested, 1 = Susceptible, 2 = Resistant					
0 SQUASH BUG 0 SQUASH BORER OTHER (Speicfy)					
			(Speicty)		
17. INDICATE A VARIETY MOST CLOSELY RESEMBLING THAT SUBMITTED FOR EACH CHARACTER					
CHARACTER	VARIETY	CHARACTER	VARIETY		
PLANT HABIT	Butternut	FRUIT SHAPE	Sugar Pie Pumpkin		
LEAF TYPE	Butternut	FRUIT COLOR	Butternut		
FLOWER TYPE	Butternut	CULINARY TYPE	Acorn, Butternut,		
Buttercup					
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 Publications, Inc., New York, N.Y.

FORM LPGS-470-20 (3-79)

AMS, LPG&S DEPARTMENT
SEPARTMENT

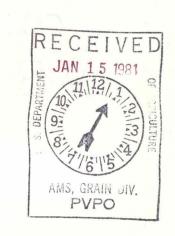
## 13D. Exhibit D. Additional Description of the Variety

"Bunutkin" has been taste tested by a panel and was rated one of the two best of six candidates tested. Waltham Butternut was one of the candidates and some breeding lines at the Suburban Experiment Station in Waltham, Mass. were the others. Cooked and served with a meal "Bunutkin" rated very satisfactory by eight diners. The flesh is very moist, sweet and deep orange in color. Cooking appears to intensify the orange flesh color.

"Bunutkin" appears to tolerate shade while growing. Yield per plant is considered good but yields per acre has not been tested to date.

Fruits turn darker buff color as storage time increases. Stored under the same conditions with Waltham Butternut, "Bunutkin" stored equally well, if not better.

Squash peelers could well be interested in "Bunutkin" because of its size, shape for easy peeling and uniform thickness of flesh.



Her the second of the second o	010000/
8b. FLOWER - Staminate:	
3 0 Sepals: MM LENGTH 0 4 Sepa	ls: MM WIDTH 1 6 Pedicel: CM LENGTH
	Cimilar to Dutterment
4 Color: 1 = WHITE 2 = LEMON YELLOW 3 = MIL	Similar to Butternut D-YELLOW 4 - DEEP YELLOW 5 - ORANGE
9. FRUIT (Market Maturity)	
1 8 CM LENGTH 2 5 CM WIDTH (Stem end)	2 5 CM WIDTH (Blossom end) 2 6 2 4 GM AVERAGE WEIGHT
Shape according to variety type:   1 = ACORN 2 = BANANA 5 = CONNECTICUT FIELD 9 = STRAIGHTNECK	3 = BUTTERCUP 4 = BUTTERNUT 6 = CROOKNECK 7 = HUBBARD 8 = SCALLOP 10 = OTHER (Specify) Sugar Pie Pumpkin
Apex: ) 1 = DEPRESSED 2 = FLATTENED	
Base: 3 = ROUNDED 4 = TAPER POINTED	
2 Ribs: 1 = NONE 2 = INCONSPICUOUS	3 = PROMINANT
Rib Furrows: 1 = SHALLOW 2 = MEDIUM DEEP 2 Rib Furrows:	1 = NARROW 2 = MEDIUM WIDE 3 = WIDE  Fruit 1 = SMOOTH Surface: 2 = FINE WRINKI 3 = SHALLOWLY
	0 1 Blossom Scar Button: 1 = DEPRESSED 2 = SLIGHTLY EXTENDED 3 = RAISED ACORN
10. RIND  0 1 MM THICKNESS AT MEDIAL	2 1 = SOFT 2 = HARD 3 = WOODY & TOUGH
COLOR PATTERN: 1 = REGULAR 2 = IRREGULA	IR.
COLORS: (Select two when necessary, i.e. Grayish-Buff) 1 2	0 4
01 = WHITE	05 = BROWN 06 = BRONZE 07 = GREEN 08 = ORANGE 13 = BLACK 14 = OTHER (Specify)
0 4 0 0 SELF OR GROUND	
PATTERN:	LOCATION OF PATTERN COLORS:
STREAKS	1 = NOT SPECIFIC
STRIPES	2 = STEM END HALF
SPOTS	3 - BLOSSOM END HALF
BLOTCHES	4 = ACORN OR TORBAN
LACE	5 = OTHER (Specify)
OTHER (Specify)	
Triusi 2 L-Cual	The property of
11. FLESH	
Thickness: MM BLOSSOM END	ness: MM MEDIAL 8 0 Thickness: MM STEM

FORM ( PGS-470-20 (3-79)

Page 2 of 4

#### U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

### EXHIBIT C (Pumpkin/ Squash/Gourd)

# OBJECTIVE DESCRIPTION OF VARIETY PUMPKIN/SQUASH/GOURD (CUCURBITA SPP.)

NAME OF APPLICANT(S)		VARIETY NAME OR TEMPORARY
Charles Tateosian	DESIGNATION	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)		BUNUTKIN
1 Blanchard St., Andover, MA 01810		FOR OFFICIAL USE ONLY PVPO NUMBER
T Branchard St., Andover, MA 01010		8100039
Place the appropriate number that describes the varietal charact Place a zero in first box (e.g. 0 8 9 or 0 9 ) when number	er of this variety in the	e boxes below.
1. SPECIES:	TO A STATE OF THE	
4 1 = LAGENARIA 2 = MAXIMA 3 = MIXTA 4 =	MOSCHATA 5 = PER	O 6 = OTHER (Specify)
2. KIND (According to use):	3. TYPE:	
2 1 = PUMPKIN 2 = SQUASH 3 = GOURD	2 1 = SUMMER (V	egetable Marrow) 2 = WINTER (Boston Marrow
4. COTYLEDON:	Seeded 9/2 d	ata taken 9/15/81
0 4 2 MM. LONG 0 2 4 MM. W	IDE appear small	er than spring seeded
Apex: 1 = TAPERED 2 = ROUNDED 3 = NOTCHED	2 Veining: 1 = OE 3 = PR	SCURE 2 = PLAINLY VISIBLE
3 1 = LIGHT GREEN 2 = GRAY-GREEN 3 = MEDIUM C	GREEN 4 = DARK G	REEN
5. PLANT:	#8 R S C 1 C S C S	
3 1 = BUSH 2 = SEMI-BUSH 3 = LONG VINES	3 1 = PILOSE	2 = PRICKLY 3 = GLABROUS
6. MAIN STEM:		
	OF FIRST INTERNODE	taken 7/7/81
1 8 AVERAGE NUMBER OF INTERNODES		ar to Butternut
7. LEAVES:		
3 Shape: 1 = OVATE 2 = ORBICULAR 3 = RENIFORM 4 = RETUSE	2 Shape	OT LOBED 2 = SHALLOW LOBED EEP LOBED
Margin: 1 = ENTIRE 2 = DENTICULATE 3 = DENTATE		FLAT 2 = FRILLED
2 1 CM. WIDE 1 4 CM. LONG		Surface: 1 = SMOOTH 2 = BLISTERED
AT 3 RD INTERNODE - 25 PLANT  [3] Dorsal Surface: )	HVERHGE	
1 = GLABROUS 2 = SOFT HAIRY  Ventral Surface:	3 = BRISTLED	
1 THE HEREN A CRAY CREEN	1 - NOT BLOT	esas e la la mais
1 = LIGHT GREEN 2 = GRAY-GREEN 3 = MEDIUM GREEN 4 = DARK GREEN	1 = NOT BLO	TCHED 2 = BLOTCHED WITH GRAY
2 3 CM. PETIOLE LENGTH	Similar to But	tternut
8a. FLOWER - Pistillate:		
1 4 CM. DIAMETER 2 Ovary: 1 = DRUM	M-LIKE 3 = FUSIFORM	4 Pedicel: CM. LENGTH
Margin: 1 = STRAIGHT 2 = CURVED 2 Margin: 1 = PLAIN 2 = FRILLED	0 2 Sepals: MM	N. WIDTH 2 0 Sepals: MM. LENGTH
4 Color: 1 = WHITE 2 = LEMON YELLOW 3 = MI	D-YELLOW 4 = DEE	P YELLOW 5 = ORANGE
	Similar to But	tternut

### INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, 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

- 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.
- 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 multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

OdAd

AMS, GRAIN DIV.

- 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.
- 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, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

#### UNITED STATES DEPARTMENT OF AGRICULTURE FORM APPROVED AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION OMB NO 40-83822 No certificate for plant variety protection may APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE be issued unless a completed application form has been received (5 U.S.C. 553). INSTRUCTIONS: See Reverse. TEMPORARY DESIGNATION OF 1b. VARIETY NAME FOR OFFICIAL USE ONLY VARIETY PV NUMBER 8100039 Bunutkin Bunutkin KIND NAME 3. GENUS AND SPECIES NAME FILING DATE TIME 1/15/81 1:00 P.M Fall Squash Cucurbita moschata FEE BECEIVED DATE FAMILY NAME (BOTANICAL) 5. DATE OF DETERMINATION 500.00 1/15/81 Cucurbitaceae October 1979 12/23/81 250.00 Gourd family NAME OF APPLICANT(S) 7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP 8. TELEPHONE AREA CODE AND NUMBER Charles Tateosian 1 Blanchard St., Andover, MA 01810 617-475-4729 IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF 10. IF INCORPORATED GIVE STATE AND DATE OF INCOR-ORGANIZATION: (Corporation, partnership, association, etc.) DATE OF INCORPORATION PORATION NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED: 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) 13B. Exhibit B, Novelty Statement. 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) 13D. Exhibit D, Additional Description of the Variety. 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 NO DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE 14c, IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUC-14b. LIMITED AS TO NUMBER OF GENERATIONS? TION BEYOND BREEDER SEED? X NO YES **FOUNDATION** REGISTERED CERTIFIED DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? 15a. NO (If "Yes," give name of countries and dates.) HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? NO (If "Yes," give name of countries and dates.) DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL 16. Y YES JOURNAL? The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request 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.

(DATE)

(SIGNATURE OF APPLICANT)