

7500001

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

North American Plant Breeders

Tothereas, 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 SEVENTERM 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 ARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS ASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS FED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Lud'

In Testimony Winercot, I have hereunto set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of Washington this 20th day of December in the year of our Lord one thousand nine hundred and seventy-six

John & Apriculture

Attast:

Commissioner Plant Variety Protection Office Grain Division

Agricultural Marketing Scroice

NORTH AMERICAN PLANT BREEDERS INC.



5201 JOHNSON DRIVE, P.O. BOX 2955 MISSION, KANSAS 65201 (913) 384-4940 TWX 910-743-4160

May 3, 1984

Mr. Lloyd McCord Jerome, Idaho 83338

RE: LUD BARLEY

Dear Mr. McCord:

It has been drawn to our attention that you have been advertising LUD Barley for sale in The Times News.

LUD Barley is a variety which is protected under the Plant Variety Protection Act. LUD can be sold only by variety name as a class of certified seed. North American Plant Breeders Inc. is the owner of the patent for LUD Barley.

Your advertisement and assumed sales of LUD Barley are in violation of NAPB's patent rights, the Federal Seed Act and state seed laws. NAPB demands that you immediately cease and desist from advertising and/or selling uncertified LUD seed. You must inform this office in writing that the illegal advertisement has been terminated. If you do not accede to this demand, we shall promptly initiate litigation in the appropriate federal court requesting a restraining order, permanent injunction and civil damages.

If compliance is not assured within seven (7) days of the date of this correspondence, we shall proceed without further notice to you.

Sincerely,

William F. Schwer Corporate Counsel

WFS:rd

cc: U. S. Department of Agriculture

Idaho Crop Inspectors Association

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

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

STRUCTIONS: See Reverse.			<u>,</u>	
VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME Ceri	0.3.1		AL USE ONLY
LUD	· · · · · ·	ear Barley	7500	001
GENUS AND SPECIES NAME	4. FAMILY NAME (B		FILING DATE	TIME A.M.
			17.1.74	10:30
Hordeum	Gramineae	· · · · · · · · · · · · · · · · · · ·	FEE RECEIVED	BALANCE DUE
Sativum	5. DATE OF DETER	RMINATION	\$ 250,00	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	1969		\$ 250.00	\$
NAME OF APPLICANT(S)	7. ADDRESS (Street	and No. or R.F.D. No.,	\$ 650,00 City, State, and ZIP	8. TELEPHONE AREA
	Code)		30x 2955	CODE AND NUMBER (9/3) 384-45
North American Plant Breeders	1120_M	BOX 991 C+ 5 20	I Johnson Dr.	(501) 374-1652
Flanc breeders	Little	Rock: Arkonsas	35,00, KS -72203 -4. 205	(301) 374-1032
		EX	7 9/21/74	9/21/76
. IF THE NAMED APPLICANT IS NOT A		10. STATE OF INCOM		11. DATE OF INCOR-
ORGANIZATION: (Corporation, partners	hip, association, etc.)	_		PORATION
Partnership ^{2.} Name and mailing address of ap		Connect		3/9/73
3. CHECK BOX BELOW FOR EACH ATT.				
🔀 13A. Exhibit A, Origin and H	Breeding History of the	e Variety (See Section	on 52 of the Plant Va	triety Protection Act.
X 13B. Exhibit B, Botanical D	escription of the varie	ety		
X 13C. Exhibit C, Objective De	escription of the Varie	ety		
	-			
X 13D. Exhibit D, Data Indicat	tive of Novelty			
	the Basis of Applicat	nt's Ownership		
4A. Does the applicant(s) specify			r name only as a cla	ss of certified seed?
(See Section 83(a) (If "Yes,"	answer 14B and 14C	below.)	YES NO	247 11/19/25
14B. Does the applicant(s) specify		14C. If "Yes," to	14B, how many gene	erations of production
limited as to number of genera	tions?	beyond breed		11/19/95
Eat 11/19/7	76 XYES NO	FOUNDATIO	N KREGISTEREI	CERTIFIÉD
The applicant declares that a viab				
ance of a certificate and will be re	eplenished periodically	y in accordance with	such regulations as	may be applicable.
The undersigned applicant(s) of				
uniform, and stable as required in	n Section 41 and is en	titled to protection	under the provisions	of Section 42 of the
Plant Variety Protection Act.				
Applicant is informed that false	representation herein o	can jeopardize prote	ction and result in p	enalties.
		///, ,		
June 26, 1974		//Jhut		
(DATE)	<u></u>	(S	IGNATURE OF APPLICA	
			n Mant Br eeder rass, General M	
(DATE)			IGNATURE OF APPLIC	
IDATE		,,		

EXHIBIT 13A

North American Plant Breeders 5201 Johnson Drive P.O. Box 2955 Mission, Kansas, 66205 (Formerly of Little Rock, Arkansas)

ORIGIN AND BREEDING HISTORY OF VARIETY "LUD"

Lud was bred by Rothwell Plant Breeders in the United Kingdom, and was introduced for the USA by N.A.P.B. who have exclusive rights for the material for that territory.

Lud was developed from the cross (Vada x Zephyr) x 59114, made at Rothwell in 1966. The line 59114 was of Dutch origin. Pedigree selection was employed throughout for the development of the variety, the definitive plant selection fixing the type being that chosen at F_4 .

Plant rows were grown at F_6 for elimination of any deviant or off-type material, and those retained were rechecked at F_7 as plant row progenies before bulking as nucleus stock for multiplication here.

Stability is being ensured by fresh plant row selection each year for the initial stage of the variety multiplication program. Variants occuring in Britain at this first stage were:

(a)	Hairy ventral crease of grain	1%
(b)	Foliage color differences	3%
(c)	Maturity difference	1%
(d)	Non-pigmented	0.5%
(e)	Longer rackilla	0.05%

These variants were successfully eliminated in the first cycle of purification; strict ear row checks in 1976 showed collar variants (7%), maturity (3%), and neck type (under 1%).

Mission, Kansas GED:cm 9/8/76

INSTRUCTIONS

U. S. DEPARTMENT

AMS, GRAIN D

RE

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GENERAL: Send an original copy of the application; exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (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.

TTEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a 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.
- 13b 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.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

EXHIBIT 13B

North American Plant Breeders 5201 Johnson Drive P.O. Box 2955 Mission, Kansas, 66205 (Formerly of Little Rock, Arkansas)

BOTANICAL DESCRIPTION OF THE VARIETY "LUD"

"Lud" is a short, two-row spring barley variety. It's fairly early in maturity and is generally similar to Zephyr but has very stiff straw. It has semi-erect early growth habit, and semi-lax ears with a slight taper.

Lud has good tolerance to mildew and moderate tolerance to brown rust. It has susceptibility to scald (Rhyncosporium secalis).

Short bong-haired Rachilla, glabsous ventral crease.

Mission, Kansas GED:cm 9/8/76

FORM APPROVED. OMB NO. 40-R3712

755 15

EXHIBIT C
(Barley)

OBJECTIVE DESCRIPTION OF VARIETY BARLEY (HORDEUM VULGARE)

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INSTRUCTIONS: See Reverse.	BARLEY (HORDEUM V	(ULGARE)	ŲŪ	001
NAME OF APPLICANT(S)				IAL USE ONLY
North American Plant Breeder ADDRESS (Street and No. or R.F.D. No., City, St.	=		7 5 0 0 0	0.7
P. 0. Box 991, 1120 Marshall		H	VARIETY NAME OR T	
Little Rock, Arkansas 72203	.			ORGIE
Place the appropriate number that describes Place a zero in first box (i.e. 0 8 9 or	the varietal character of thi 0 9) when number is eith	is variety in the er 99 or less or	boxes below. 9 or less.	
1. GROWTH HABIT:			· · -	
1 = SPRING 2 = FACULTATIVE WINT	TER 3 = WINTER 3	•	1 = PROSTRATE 2 3 = ERECT	? = SEMIPROSTRATE
2. MATURITY (50% Flowering):				
2 1 = EARLY (California Mariout) 2 = M	IOSEASON (Betzes) 3 = La	ATE (Frontier)		
r		NIA MARIOUT	3 = CONQUEST	4 = DICKSON
2 No. of days Later than 1) 5	= PIROLINE 6 = PRIMUS	7 = UNITAN		
3, PLANT HEIGHT (From soil level to top of hea	d):	·		
1 = SEMIDWARF 2 = SHORT (Californ	aia Mariout) 3 = MEDIUM T	「ALL (Betzes)	4 = TALL (Conquest)	
0 2 7 Em. Shorker than 7.6. 1	1 = BETZES 2 = CALIFOR 5 = PIROLINE 6 = PRIMUS	NIA MARIOUT S 7 ≖ UNITAN	3 = CONQUEST	4 = DICKSON
Cm. Taller than)	S THOCHE B-THINO	5 /- UNITAN		
4. STEM:		,		-
Exertion (Flag to spike at maturity): 3 = 10	- 3 cm. 2 = 3 - 10 cm. 0 - 15 cm.	Anthocyanin:	1 = ABSENT 2 =	PRESENT
NO. OF NODES (Originating from node	above ground)			
4 Collar Shape: 1 = CLOSED 2 = V-S 4 = MODIFIED CLOSED	SHAPED 3 = OPEN 1	Shape of Neck:	1 = STRAIGHT 3 = OTHER (Specify	2 = SNAKY
5. LEAF:			<u>-</u>	
Basal leaf sheath (seedling): 1 = GLABROU	JS 2 = PUBESCENT	Position of flag lea	af (at boot stage):	1 = DROOPING 2 = UPRIGHT
3 Waxiness: 1 = ABSENT (Glossy) 2 = Si	LIGHTLY WAXY	MM. WIDTH	First leaf below flag le	eaf)
CM. LENGTH (First leaf below flag lea	n 2	Anthocyanin in lea	if sheath: 1 = ABSE	NT 2 = PRESENT
6. HEAD:		 	,,,	
Type: 1 = TWO-ROWED 2 = SIX-RO	OWED 1	Daniel Co.	LAX 2 = ERECT ERECT (Dense)	(Not dense)
Shape: 1 = TAPERING 2 = STRAP 4 = OTHER (Specify)	3 = CLAVATE	an erre tricking.	ABSENT (Glossy)	2 = SLIGHTLY WAXY
1 = NONE 3 = 1/4 - 1/2	2 = AT TIP OF HEAD	Rachis (Hair on ed	ge): 1 = LACKING 2	2 = FEW 3 = COVERED
7. GLUME:				
1 = 1/3 OF LEMMA 2 = 1 3 = MORE THAN 1/2 OF LE	/2 OF LEMMA 3	Hairs: 1 = NON	E 2 = SHORT	3 = LONG
Hair covering: 1 = NONE 2 = RESTR	ICTED TO MIDDLE 3 = CO	ONFINED TO BAI	ND 4 = COMPLET	ELY COVERED
3 Awns: 1 = LESS THAN EQUAL TO LEN 3 = MORE THAN EQUAL TO LE		UAL TO LENGTH	OF GLUMES	
Awn Surface: 1 = SMOOTH 2 = SEM	ISMOOTH 3 - BOUGH			

EXHIBIT D

North American Plant Breeders 5201 Johnson Drive P.O. Box 2955 Mission, Kansas, 66205 (Formerly of Little Rock, Arkansas)

DATA INDICATIVE OF NOVELTY: "LUD"

Lud is most similar to Zephyr, and differs from that variety in having waxier stems and ears (i.e. having higher glaucosity, as recognized in U.P.O.V. countries). It also has stiffer straw than Zephyr. Lud can also be differentiated from Zephyr by having 100% (i.e. all plants) susceptibility to D.D.T.; whereas, Zephyr shows segregation for this characteristic and 40-60% of the plants are resistant and the balance are susceptible.

Mission, Kansas GED:cm 10/6/76

EXHIBIT E

North American Plant Breeders 5201 Johnson Drive P.O. Box 2955 Mission, Kansas, 66205 (Formerly of Little Rock, Arkansas)

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP; "LUD"

Lud was bred by full-time employees of Rothwell Plant Breeders Limited. Pursuant to terms of employment of such employees, ownership of the variety vested in Rothwell Plant Breeders Limited.

Pursuant to an agreement dated March 9, 1973, between Rothwell Plant Breeders and North American Plant Breeders, ownership of the variety in the U.S.A. and the right to apply for plant variety protection in U.S.A. passed to the applicant.

Further information on this matter has been provided in the letter of February 3, 1976 from Mr. B. W. Greengrass, together with a notorized copy establishing N.A.P.B. as assignee of title to all Rothwell Plant Breeders' bred varieties in U.S.A.

Mission, Kansas GED:cm 9/8/76 Excerpts from:

NAPB-RPB TECHNICAL COLLABORATION AGREEMENT

"AGREEMENT dated this 9th day of March 1973, between NORTH AMERICAN PLANT BREEDERS, a partnership of R-P and OPB (both as hereinafter defined) existing under the laws of the State of Connecticut, USA ("NAPB") on the one hand and ROTHWELL PLANT BREEDERS LIMITED, a company incorporated in England with its registered office at Field House, Grimsby, Lincolnshire, England ("RPB") on the other relating to technical collaboration between them as hereinafter recited......

"WITNESSETH THAT the parties hereto agree as follows:

"ARTICLE I - DEFINITIONS

Following terms used herein shall have the following meanings:

- (4) 'Seed' means any reproductive material of Agricultural Crops.
- (5) 'Seed Know-How' means any knowledge, expertise and other information, and any rights of whatever nature (including but not limited to plant breeders' and similar rights) relating in any way to Agricultural Crops or Seed, or relating in any way to all processes, methods and apparatus for the breeding, planting, harvesting, production and treating of Agricultural Crops and Seed. Proprietary or secret knowledge, expertise and other information and rights relating to chemicals used for treating Agricultural Crops or Seed are excluded from the definition of 'Seed Know-How' but such proprietary or secret knowledge, expertise and other information and rights relating to chemicals used for treating Agricultural Crops or Seed for the purpose of creating inheritable characteristics in Agricultural Crops or Seed are included in 80000 such definition.

"ARTICLE IV - TECHNICAL COLLABORATION AND LICENSING

- (1) RPB, to the extent of its rights and during the term of this Agreement, shall (a) make available to NAPB on a continuing basis, all Seed available to RPB for the NAPB territory from all sources in quantities for initial plant breeding purposes, (b) disclose and transfer to NAPB on a continuing basis for use in the NAPB territory in connection with the breeding, development, production and sale of Seed all present and future Seed Know-How available to RPB for the NAPB territory from all sources, and (c) assign and continue to assign to NAPB all its right, title and interest in and to said Seed Know-How and said Seed for exploitation throughout the NAPB territory......
- (4) Any assignments made or licenses granted under the provisions of Clauses (1), (2) or (3) hereof shall be in perpetuity or for the life of the rights being assigned or licensed. However, the respective obligations of the parties to make such assignments and grant such licenses to each other hereunder with respect to new Seed or new Seed Know-How, shall terminate forthwith upon termination of this Agreement for any reason.
- (7) Insofar as NAPB has the right by way of assignment of all right, title and interest in Seed Know-How: (i) NAPB shall have the exclusive right to take whatever action it deems necessary to protect Seed Know-How in the NAPB territory by filing application for plant breeders certificate and similar rights; (ii) RPB shall assist NAPB in securing and transmitting all information for the completion and prosecution of such applications; (iii) within thirty (30) days after the execution of this Agreement RPB shall assign to NAPB all applications for U.S. Certificate

for Plant Variety Protection and hereby grants to NAPB the exclusive right to file applications for Plant Variety Protection Certificates and to be the owner of all rights with respect thereto, including the right to enforce such Certificates and rights represented thereby against unauthorized third parties. Reciprocally, RPB shall have similar exclusive rights for the RPB territory and NAPB shall render similar assistance and make similar assignments to RPB.

"IN WITNESS WHEREOF, the parties have executed this Agreement the day and year first above written.

NORTH AMERICAN PLANT BREEDERS

By /s/ B.W.A. Greengrass

Title: General Manager

ROTHWELL PLANT BREEDERS LIMITED

By /s/ F. M. Collins

Title: Managing Director"

I certify this document to be true excerpts from the original agreement.

Rosalyn Suyderman A Notary Public for the County of Pulaski, State of Arkansas

My Commission Expires Nov. 1, 1979

7			- 11 130000a
ORM GR-470-5 (Reverse)		0000 8	
, LEMMA:	2 = AWNLETS ON CENTRAL ROWS	AWNLESS ON LATERAL	ROWS
5 LAWII: a - CHORT ON CI	ENTRAL ROWS, AWNLETS ON LATE than spike) 6 = HOODED	ENALHOWS	(less than equal to length of spike)
3 Awn Surface: 0 = AWNLESS	S 1 = SMOOTH 2 = SEMISMOO	- -	
1 Teeth: 1 = ABSENT 2 =		Hair: 1 = ABSENT	
Shape of base: 1 = DEPRESS 3 = TRANSV	SION 2 = SLIGHT CREASE /ERSE CREASE	2 Rachilla Hairs: 1 = 5	SHORT 2 = LONG
9. STIGMA:	•		45,
Hairs: 1 = FEW 2 = MA	ANY		
10. SEED:			nur 1 = ABSENT 2 = PRESENT
	= COVERED	Hairs on Ventral Furro	ONG (8.5 - 9.5 mm.)
3 Length: 1 = SHORT (8.0 4 = MIDLONG T	mm.) 2 = SHORT TO MIDLONG (O LONG (9.0 - 10.5 mm.)	7.5 - 9.0 mm.) 3 = MIDE 5 = LONG	3 (10.0 mm.)
2 Wrinkling of hull: 1 = NA	KED 2 = SLIGHTLY WRINKLED	3 = SEMIWRINKLED	4 = WRINKLED
Aleurone Color: 1 = COL	ORLESS (White or Yellow) 2 = BL		
PERCENT ABORTIVE		3 9 GMS. PER 1000	SEEDS
11. DISEASE: (0 = Not Tested, 1	= Susceptible, 2 = Resistant)		
SEPTORIA	NET BLOTCH	SPOT BLOTCH	2 POWDERY MILDEW
LOOSE SMUT	BACTERIAL BLIGHT	COVERED SMUT	FALSE LOOSE SMUT
STEM RUST	LEAF RUST	SCAB	SCALD OTHER (Specify)
AY	BSMV	BYDV	
12. INSECT: (0 = Not tested, 1 =	Susceptible 2 = Resistant)		
GREEN BUG	ENGLISH GRAIN APHID	CHINCH BUG	ARMYWORM
GRASS HOPPERS	CERIAL LEAF BETTLE	OTHER (Specify)	
	GP A	В	
HESSIAN FLY RACES	D =	F G	
13. CHEMICAL (0 = Not Tested,	1 = Susceptible, 2 = Resistant)		
TOD	OTHER (Specify)		
14 INDICATE WHICH VARIET	Y MOST CLOSELY RESEMBLES THA	AT SUBMITTED:	NAME OF VARIETY
CHARACTER	NAME OF VARIETY	CHANACTER	
Plant tillering NO	t known at date of	Seed size	Not known at date of application
	plication	Coleoptile elongation	appi icación
Leaf color		Seedling pigmentation	
Leaf carriage			
REFERENCES: The following terms used in	g publications may be used as a ref	erence aid for the standar	dization of character description

- Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United States and Cana in 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.
 Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization Pests, Agriculture Handbook No. 338, U.S. Dept. of Agriculture. pp. 61-84.
 Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

9/2

BILL OF SALE AND ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS that AGRIPRO BIOSCIENCES INC., a Delaware corporation (hereinafter referred to as "Seller"), pursuant to that certain Asset Purchase Agreement of even date herewith by and between Seller and AGR ACQUISITION CORPORATION, a Delaware corporation (hereinafter referred to as "Buyer") and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant, bargain, sell, assign, convey and deliver unto Buyer, all of Seller's right, title and interest in and to the plant varieties owned/registered by Seller and more particularly set forth on Exhibit A attached hereto for which PVP Certificates have been issued by or may be pending before the U. S. Department of Agriculture.

TO HAVE AND TO HOLD UNTO PURCHASER, its successors and assigns forever.

IN WITNESS WHEREOF, Seller has executed this Bill of Sale and Assignment as of the 30th day of June, 1994.

AGRIPRO BIOSCIENCES INC.

BY:	\mathcal{L}	Q.	Sama	
			-	-

STATE OF KANSAS, COUNTY OF JOHNSON

the name of the corporation by himself as PRESIDENT

WITNESS my hand and Notarial Seal at office the day and year above written.

Commission Expires:

ALMA M. WEAVER

NOTARY PUBLIC STATE OF KANSAS

State of Delaware

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AGR ACQUISITION CORPORATION", CHANGING ITS NAME FROM "AGR ACQUISITION CORPORATION" TO "AGRIPRO SEEDS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 1994, AT 4:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.

SECRETARY OF STATE AUTHENTICATION:

2394087 8100

DATE:

07-01-94

7169071

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944121584

06/30/94 14:25 2913 384 0208

ABI SHAWNEE MSN

Ø 002/002

CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION OF AGR ACQUISITION CORPORATION

AGR Acquisition Corporation, a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: that the Board of Directors of said corporation, by the unanimous written consent of its members filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of said corporation:

RESOLVED, that the Certificate of Incorporation of this corporation be amended by changing the Article thereof numbered "ARTICLE I" so that, as amended, said Article shall be and read as follows:

"ARTICLE I

Name

The name of the corporation (hereinafter called the 'Corporation') is Agripro Seeds, Inc."

SECOND: That in lieu of a meeting and vote of stockholders, the sole shareholder of the corporation has given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

FOURTH: That the capital of said corporation shall not be reduced under or by reason of said amendment.

IN WITNESS WHEREOF, said AGR Acquisition Corporation has caused this certificate to be signed by Gary T. Hancock, its President, and attested by Ann Steelman, its Secretary, this 30 day of June, 1994.

AGR ACQUISITION CORPORATION

v. 😴

Gary T. Hangock, President

ATTEST:

Ann Steelman, Secretary

LAW OFFICES

C.THOMAS CATES
JOEN DUNCAN
JOHN A. STEMMLER
J BAOOKE LATHRAM
JEFFEIBELMAN
DEWITT M. SHY, JR
H. HICHAEL POTTER
JOHN W CHANDLER, JR.
DAVID J. HARRIS
MARKER B. RODDA
JOHO HELLARD, JR

STEPHEN D. CRAWLEY LAUREL C. WICLIAMS

LAUREL L...

LIDA A. KRUPICKA

LECANNE MARSHALL COF
RICHARD R. SPORE, 10

BETH WEEM'S BRADLEY

KATHRYN E. STORY

LES JONES

MELISSA A. MARAVICH

RICHT E. WILKINS

TODO A. ROSE

REVA M. RANGEL

SUBAN CLARR TATLOH

DOUGLAS F. HALIJAN

JOHN W. CAMPBELL

TER FELLO

BURCH, PORTER & JOHNSON

130 NORTH COURT AVENUE

Memphis, Tennessee 38103

TELECOPIER 901-523-7140

July 25, 1994

10 MORTH FRONT STREET BUITE 630 HEMPHIS, TENNESSEE 36:05 ELEPHONE 90::527-23:1 ELECOPIER BOI-527-4:99

Ms. Ann Zempolich Plant Variety Protection Office U. S. Department of Agriculture 500 NAL Building 10301 Baltimore Boulevard Beltsville, MD 20705

Agripro Biosciences Inc. Sale of PVPs to AGR Acquisition Corporation (which has changed its name to Agripro Seeds, Inc.)

Dear Ms. Zempolich:

I am enclosing herewith the Bill of Sale and Assignment wherein Agripro Biosciences Inc. has sold and assigned all of its right, title and interest in and to the PVPs listed on the attachment to the Bill of Sale to AGR Acquisition Corporation and hereby request that your records be changed to show the new owner as Agripro Seeds, Inc., the new name of AGR Acquisition Corporation. It is our understanding that the attachment was generated by someone in Seeds, Inc., the new name of AGR Acquisition Corporation. It is our understanding that the attachment was generated by someone in your office and forwarded to Agripro Biosciences Inc. at its request, and was subsequently forwarded to our office as attorneys for the purchaser in connection with the sale transaction.

As I indicated to you in our several previous telephone conversations, AGR Acquisition Corporation changed its corporate name to Agripro Seeds, Inc. the same date as the closing of the sale. I am enclosing herewith a copy of the Certificate of Amendment filed by the Delaware Secretary of State wherein the corporate name is changed.

If I counted correctly, there are 149 PVP certificates listed on the attachment to the Bill of Sale and Assignment. I am enclosing a check in the amount of \$3,725.00 payable to United States Treasury in payment of the \$25.00 per certificate fee to change the owner's name on your records.

THIS DOCUMENT HAS A COLORED BACKGROUND — NOT A WHITE BACKGROUND — THIS DOCUMENT HAS A COLORED BACKGROUND



HELENA CHEMICAL COMPANY Suite 3200 — Clark Tower 5100 Poplar Avenue Memphis, Tennessee 38 137

DATE

CHECK NUMBER 22406

7-8-94

EXACTIVATE SECUL

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PAY THIS AMOUNT \$3,725.00

United States Treasury

PAY TO THE ORDER OF

HELENA CHEMICAL COMPANY

AUTHORIZED SIGNATURES