THE UNITHED STATES OF AMERICA

10 ML TO VHOM THESE PRESENTS SHALL COME: lowa Agriculture and Home Economics Experiment Station

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 TIPLE 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 OF ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF *Seventeen* TEARS 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 EX-LUDE GTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING VF, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT IN THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. INITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS DECENTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS EXTHE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

hundred and

SOYBEAN

8000061

'Weber'

In Lestimony Wathereot, 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 June in the year of our Lord one thousand nine

eighty.

Plant Variety Protoction C Disision

No.

	UNITED STATES DEPARTME AGRICULTURAL MARK		FORM APPROVE		
	LIVESTOCK, POULTRY, GRA	No certificate for o	OMB NO, 40-R382 lant variety protection ma		
	PLICATION FOR PLANT VARIE	be issued unless a c has been received (5	completed application for		
18	. TEMPORARY DESIGNATION OF VARIETY	16. VARIETY NAME			
•••	A75-102032	Weber	a de la composición d	PV NUMBER 8	000061
2.	KIND NAME	3. GENUS AND SPEC	CIES NAME	FILING DATE	TIME A.M
	Soybean	Glycine max.		2/28/80	12:30 P.M
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETER	MINATION	\$ 500.00	2/15/80
	Leguminosae	August 31,		\$ 250.00	4-25-80
6.	NAME OF APPLICANT(S)	7. ADDRESS (Street	and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE ARE
Io	wa Agriculture and Home	4 1 (1) 1 (1) (1) (1)	Curtiss		CODE AND NUMB
	Economics Experiment Sta.	1	a State Univer	sity	F15 00/ /76
9.		BSON FORM OF	S, IA 50011 10. IF INCORPORAT	ED, GIVE STATE AND	515-294-476
. М	ORGANIZATION: (Corporation, partnersh State Experiment Station	ip, association, etc.)	DATE OF INCOR		PORATION
12.	NAME AND MAILING ADDRESS OF APP	LICANT REPRESENTA	TIVE(S), IF ANY, TO	SERVE IN THIS APPLI	ICATION AND RECEIVE
	ALL PAPERS: John P. Mahls ISU - 104 Cur Ames, IA 500	tiss			
13.	CHECK BOX BELOW FOR EACH ATTACH	IMENT SUBMITTED:			
					1. B
	XI 13A. Exhibit A, Origin and Bree	eding History of the V	ariety (See Section 2	2 of the Plant Varie	ty Protection Act.)
	X 13A. Exhibit A, Origin and Bree		ariety (See Section !	02 0J the Plant Varie	ty Protection Act.)
	X 13B. Exhibit B, Novelty Statem	ent.			
	and the second	ent.			
	X 13B. Exhibit B, Novelty Statem	ent. iption of the Variety	(Request form from		
140	 X 13B. Exhibit B, Novelty Statem 13C. Exhibit C, Objective Descr 13D. Exhibit D, Additional Desc 	ent. iption of the Variety cription of the Variety	(Request form from y.	Plant Variety Protec	tion Office.)
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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.

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.

Give: (1) the genealogy, including public and commercial 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 uniformity and stability.

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.

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.

If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may <u>NOT</u> 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.

ITEM

13a

13b

13c

13d

1.20

14a

15a

5

Exhibit A

Origin and Breeding History of the Variety

Weber is an F5-plant selection from the cross C1453 x Swift. C1453 is a line developed by the USDA-SEA and Purdue University Agriculture Experiment Station from the cross C1266R x C1253. C 1266R is a selection from Harosoy x C1079, C1253 is from Blackhawk x Harosoy, and C1079 is from Lincoln x Ogden. F5 seed was obtained by the Iowa Agriculture and Home Economics Experiment Station from Improved Variety Research, Inc. who made the cross and advanced it to the F5 generation by single-seed descent in Iowa, Hawaii, and Puerto Rico. Progeny of F5 plants were evaluated in 1973 for iron deficiency chlorosis on calcareous soil and the line had an adequate level of resistance. It was tested for yield in Iowa during 1974 and 1975, and in the Northern Regional Soybean Tests from 1976 to 1978 under the designation A75-102032.

Seed of Weber was increased in Iowa in 1978 and distributed to foundation seed organizations in states participating in its release. Foundation seed was produced in 1979. Foundation seed will be distributed to certified seed growers for planting in 1980.

The seed of Weber has met the purity standards for foundation seed. To meet this standard, a variety cannot have over .1% offtypes or variants present.

Weber has shown evidence of stability. The attached data indicate a stable variety.

			Matu-	Lodg-		Seed	Seed	See	
Strain	Yield bu/A	Rank No.	rity Date	ing Score	Ht. In.	Qual. Score	Size g/100	Protein %	011 %
		· .		<u>1978</u>		· · · · · · · · · · · ·			•
No. of Tests	13	13	12	13	12	9	12	6	6
a .1	10.7	2							
Coles	40.1	11	+6.2	2.2	38	2.1	19.5	42.3	20.2
Corsoy (II)	40.5	10	+7.8	2.0	- 37	2.4	16.3	41.4	20.5
Evans (0)	34.9	13	-6.3	1.2	30	2.9	16.2	40.3	22.2
Harlon	36.8	12	-5.2	1.6	34	2.5	17.4	39.6	21.8
Hodgson 78 (I)	41.7	5	9-20*	1.5	34	2.2	17.6	39.4	22.1
Weber	42.8	3	+4.2	1.8	36	2.3	13.7	40.2	21.4

From Regional Summary of UT I

197	<u>/-1978,</u>	2-year	mean

No. of Tests	28	28	25	28	26	20	24	12	12
Coles	41.4	5	+6.9	2.3	39	2.1	19.2	41.1	20.2
Corsoy (II)	42.5	3	+7.4	2.2	38	2.3	16.1	40.0	20.6
Evans (0)	34.3	7	-7.8	1.4	31	2.5	15.6	39.2	22.2
Harlon	36.3	6	-5.6	1.8	35	2.4	16.8	38.7	21.8
Hodgson 78 (I)	41.5	4	9-17.5*	1.7	34	2.1	17.0	38.4	22.2
Weber	44.6	1	+4.8	2.0	36	2.1	14.0	39.0	21.4
 All second s									

*119 days after planting.

3

4

From Regional Summary of UT I

				Chloro-	Seed	Seed Con	
Cultivar	Y iel d	Maturity	Lodging Ht.	sis	Size	Protein	011
	bu/A	date	scoret in.	score++	g/100	%	%
Weber	44.6	Sept. 22	2.0 36	1.8	14.0	39.0	21.4
Hodgson 78 Coles	41.5 41.4	Sept. 18 Sept. 24	1.7 34 2.3 39	2.0 2.8	17.0 19.2	38.4 41.1	22.2 20.2
Corsoy	42.5	Sept. 25	2.2 38	3.6	16.1	40.0	20.6

+Scores range from 1 (plants erect) to 5 (plants prostrate). ++Scores range from 1 (very good) to 5 (very poor).

5

Exhibit B

Novelty Statement:

Weber most closely resembles Corsoy and Chippewa. Weber has white flowers, tawny pubescence, brown pods, a dull yellow seed coat and a black hilum. Corsoy has purple flowers, grey pubescence, brown pods, dull yellow seed coat and a yellow hilum. Chippewa has purple flowers, tawny pubescence, brown pods, shiny yellow seed coat and a black hilum. Weber has a seed size of 14.0 g/100 seeds, and Corsoy has 16.1 g/100 seeds.

Weber is 3 days earlier in maturity than Corsoy, and has a 5% higher yield. It has similar height and lodging scores as Corsoy. Weber is 1% lower in protein and .8% higher in oil and is 2.1 g/100 seeds smaller in size. Weber also has moderate resistance to iron chlorosis while Corsoy is susceptible.

Weber's unique combination of small seed size, chlorosis resistance and other traits listed on this form distinguish it from other varieties.



July 22, 1982

Mr. Kenneth H. Evans, Acting Commissioner Plant Variety Protection Office National Agricultural Library Building Beltsville, Maryland 20705

Dear Mr. Evans:

This letter is a follow up of our recent telephone conversation.

Asgrow would like to obtain photocopies of selected PVP applications for those varieties for which protection is granted. We are interested in receiving applications for the following crops:

Garden Bean Dry Bean Lettuce Onion · Parsley Tomato

Watermelon Broccoli Cabbage Carrot Cauliflower Pea

Pepper Corn Cucumber Eggplant Muskmelon Squash Soybean

80-61

Soy- Weber # 7 pairl

We are interested in applications approved in 1980, 1981 and those granted thus far in 1982.

Exclude the following copies:

1. Do not send photocopies of any Asgrow applications.

- 2. Do not send a photocopy of the actual certificate.
- 3. Do not send photocopies of applications issued in 1981 for soybeans and dry beans. Your office has sent these already.

Could you please advise me the cost of the above information and I will send you a check.

For the future, we would be interested in receiving copies of applications for the above species. Again, exclude Asgrow applications and the actual certificate itself. Could you arrange to have this done routinely, perhaps each month or each quarter, and we would reimburse your office.

Very truly yours, Company, the following attached list of Issued Certificates have Mr. 2 Buth

John A. Batcha

/jc

been photocopies will be mailed to you. Your patience is the photocopies will be mailed to you. Your patience is appreciated in the delay, caused by the reduced PVP stable and the magnitude of this order Thank non the magnitude of this order. Thank you. PVP Obbice Jan. 19, 1983

NOTE: In regards to this request made by your

FORM GR-470-2 UNITED STATES DEPARTMEN (6-15-72) AGRICULTURAL MARKE	ETING SERVICE	RE	EXHIBIT C
GRAIN DIVIS HYATTSVILLE, MARY			
OBJECTIVE DESCRIPT	and the second		
INSTRUCTIONS: See Reverse. SOYBEAN (GLY)	CINE MAX)		
NAME OF APPLICANT(S)		FOR OFFICIAL US	E ONLY
Iowa Agriculture and Home Economics Experiment ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)	t Station		1061
104 Curtiss		VARIETY NAME OR TEMPO	RARY
Iowa State University		WEBER N	15 2/28/80
Ames, IA 50011 Place the appropriate number that describes the varietal charac	ter of this variety	the second s	15 575070
1. SEED SHAPE:			
1 1 = SPHERICAL 2 = SPHERICAL 3 = ELONGATE	4 = OTHER (S	pecify)	
2. SEED COAT COLOR:	! S	HADE:	
1 I TELLOW 2 = GREEN 3 = BROWN	4 = BLACK	2 1 = LIGHT 2 = MED	10M 3 = DARK
5 = OTHER (Specify)		<u> </u>	
$\begin{bmatrix} 1 \end{bmatrix} = DULL 2 = SHINY \qquad \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	4 GRAMS PER	100 SEEDS	
5. HILUM COLOR:	† Si	HADE	
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6 = BLACK 7 = OTHER (Specify)		2 1 = LIGHT 2 = MED	IUM J-DARK
6. COTYLEDON COLOR: 7.	LEAFLET SIZE (See	Reverse):	
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	2		
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1 $1 = 0VATE$ $2 = 0BLONG$ $3 = LANCEOLATE$ $4 = EI$ 9. LEAF COLOR (See reverse):1 $1 = LIGHT GREEN$ $2 = MEDIUM GREEN$ $3 = DARK GR$ 1 $1 = LIGHT GREEN$ $2 = MEDIUM GREEN$ $3 = DARK GR$ 1 $1 = LIGHT GREEN$ $2 = MEDIUM GREEN$ $3 = DARK GR$ 1 $1 = LIGHT GREEN$ $2 = BROWN$ $3 = BLACK$ 2 $1 = TAN$ $2 = BROWN$ $3 = BLACK$ 3. PLANT PUBESCENCE COLOR:12 $1 = GRAY$ $2 = BROWN$ 3 $1 = SLENDER$ $2 = BUSHY$ 3 $1 = SLENDER$ $2 = BUSHY$ 4. PLANT TYPES (See Reverse):15.3 $1 = SLENDER$ $2 = BUSHY$ 4. PLANT TYPES (See Reverse):17.1 $1 = GREEN$ $2 = PURPLE$ 5. HYPOCOTYL COLOR:17.1 $1 = GREEN$ $2 = PURPLE$ 8. NUMBER OF DAYS TO FLOWERING prog ore 9 or less.)19. MATURITY GROUP: $1 = 00$ 1 $1 = GREEN$ $2 = PURPLE$ 3 8 $6 = IV$ 0SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (G (e.g. (D 2)) when size is 9 mm. or less.)1 0 9 MM. LENGTH OF SEEDLING1 1 8 1 1 8 1 0 SOYBEAN CYST0 0 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	EEN 10 : POD SET: 1 1 1 = SCATTERE 1 1 = SCATTERE 1 1 = SCATTERE 1 1 = DETERMINA 3 = OTHER (Spe SEED PROTEIN: 1 1 = A 2 3 = 1 8 VI rowth Chamber) AT 25 1 1 RPLE 2 OWN 0	FLOWER COLOR: 1 = WHITE 3 = OTHER (Spealty) 0 2 = CONCENTRATE HADE: 2 1 = LIGHT 3 9 = VII 4 11 5 9 = VII 9 10 = * C. (Place a zero in first b) MM. WIDTH OR COTYLEDON	D IUM 3 = DARK TË III VIII DA DT DT

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22. INDICATE WHICH N	ARIE TY MOST C	LOSELY RE	SEMBLES TH	IAT SUB	MIT TED.					
CHARACTER	N	AME OF VAL	RIETY		CHARA	CTER		NAME OF VAR	IETY	
Plant shape	Corsoy				Petiole	angle				
Leaf shape	Hark				Seed size		Chippewa			
Leaf color	Sloa	n		1. ang 1. 1	Seed s	hape		Rampage		
Leaf surface	Cors	<u>0V</u>			Seedling pig	mentation				
23. GIVE DATA FOR SU	BMITTED AND	IMIL'AR STA	NDARD YAR	IETY:						
	NO. OF DAYS		PLANT	LEA	LEAF SIZE CON		TENT AVERAGE NO.			
VARIETY	TO MATURITY	SCORE			Length	Protein	Oil	OF PODS PER PLANT	IODINE NO.	
Submitted Weber	124*	2,1	36	ſ	-	39%	21.4 %			
Nome of similar variety Corsoy	127*	2,3	38		-	40%	20,6%	~		

* after planting

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.

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2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.

3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE			VARIETY
Small			"Amsoy"
Medium			"Bonus"
Large	an an ann an Aonaichte An Aonaichte	theodol dae Declaration	''Anoka''

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"