503944116 08/03/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3990771

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DEAN WILLIAM CHRISTENSEN	03/18/2016
DAVID B FISCHER	03/21/2016
JOSEPH KEVIN GOGERTY	03/14/2016
EDWIN MICHAEL GROTE	03/15/2016
WADE EUGENE ODLAND	03/18/2016
ERIC SCOTT RIEDEMAN	03/17/2016
STEPHEN JOSEPH SZALMA	03/20/2016
GERHARD P WEBER	03/23/2016

RECEIVING PARTY DATA

Name:	PIONEER HI-BRED INTERNATIONAL, INC.
Street Address:	7100 NW 62ND AVE
City:	JOHNSTON
State/Country:	IOWA
Postal Code:	50131

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15086122

CORRESPONDENCE DATA

Fax Number: (515)535-6883

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 515-535-0647

Email: ipsupport@pioneer.com
Correspondent Name: LYNDA FITZPATRICK
Address Line 1: 7250 NW 62ND AVE
Address Line 4: JOHNSON, IOWA 50131

ATTORNEY DOCKET NUMBER:	6955-US-NP
NAME OF SUBMITTER:	LYNDA M FITZPATRICK
SIGNATURE:	/Imfitzpatrick/

PATENT 503944116 REEL: 039331 FRAME: 0411

DATE SIGNED:	08/03/2016
Total Attachments: 10	
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		WORLDWIDE ASSIGN			
				an invention entitled MAIZE L	<u> Yeriç</u>
X00F910 the subject matter o		n the application for pate	ent (Attorney Docket	No: <u>6955-US-NP</u>)	
declaration executo	***************************************				
☑ United States Of A	merica Pater	it Application Serial No.	15/086122	filed onMarch 31, 2016	*
PCT Application Ser	ial No.	filed on	***************************************		
which claim(s) its earliest pr	iority to Application S	Serial No.		, filed on I, and in fulfillment of my pre-s	····.*
For valuable conside	ration, the receipt an	d adequacy of which is h	ereby acknowledged	l, and in fulfillment of my pre-e	xisting
obligation of assignment to a					
				ed and existing under the laws	
				00 NW 62 nd Avenue, P.O. Box	; 1014
Johnston, lowa 50131-1014, l				r assigns, rs Patent ("Patent"), (2) any ;	eria rise
				ention for the Protection of Inc	
				al property for any and all m	
				any and all provisional applic	
				in(s) for Patent, and/or related	
				ns for Patent for any such inve	
				itute, continuation, continuati	
				application(s) for Patent and/o	
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				ms under the aforesaid Intern	
				r mine, the Commissioner of P e being hereby authorized to Is	
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				end of the term or terms for	
				yed by the undersigned witho	
assignment;	•			,	The second
II. Agree, whenever assignee	asks, without further	compensation but at as	signee's expense for	actual and reasonable costs inc	:urred,
				y facts known to me respectin	
				th Inventions or the rights de	
				untry in which such testimony	
				or instruments necessary or re	
				of the provisions of this instru form and substance which n	
				e, its successors, assigns, an	
representatives to obtain, ma	intain, defend and er	orce patent protection	for such inventions:	and/or secure title to such inve	u nego antina
with assignee;		tion and formation for a community			
III. Represent, warrant and co	ovenant that I have th	e full right and lawful a	uthority to make this	assignment, that such assigne	d right
is not pre-dated by any grant,					
	obligations herein sl	nall also bind all of my h	eirs, executors, adm	Inistrators, legal representativ	es, and
assigns; and					
V. Agree that an authorized	i representative of a	issignee is hereby gran	ted the power to in	sert in this assignment any	further
				and Trademark Office or the	
regarding application number	o io monsorazza ion nadu atch nalifi hac	ms Assignment, memon kasan	of the bower to m	sert on this assignment infor	mation
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DEAN WILLIAM CHRIS	TENSEN	an William.	Christaso	~ RM 2014	
Name of Inventor 1	The state of the s	Signature of Inventor	The second state of the	Date	
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		WORLDWIDE ASSIGN	MENT		
		3, hereby declare that I am an inver			AIZE HYBRID X00F910 the
	declaration executed on	n the application for patent (Attorne)	nocket No: 653	5-07-105)	
Ø	United States Of America	Patent Application Serial No.	15 (000122	filad on	Marak 21, 2016
m	PCT Application Serial No.	filed on	_12\/\00015\/	, mea on	March 31, 2016
****	h claim(s) its earliest priority to	***************************************		, filed or	\
Y-Y-1370		he receipt and adequacy of which is i	ereby acknowles		
obligat		which is hereby acknowledged, I here			
		EER HI-BRED INTERNATIONAL, INC., 8			
the second of the second		America and having its principal pla			^d Avenue, P.O. Box 1014,
		ferred to as the assignee, and to assig			
		erest in and to: (1) the aforesaid ap			
		plication(s) for Patent by virtue of the ') and any other treaty or understa			
		of and any other treaty or understanding			
		ether joint or sale, disclosed in such			
		on(s) for Patent ("Inventions"), (4)			
		all provisional, non-provisional, divis			
part, in	ternational and convention ap	plications based in whole or in part	upon such afores	iald application	(s) for Patent and/or such
		or any such inventions in any country			
		ole or in part upon such aforesaid ap			
		rations in its name or in my name, (
		iderstanding, (3) have sald patents g of America and any counterpart in a			
		ignee in accordance herewith, and (- Paris (1997) (1997) (1997) (1997) (1997)		
		ments thereof, whether past, presen			- '-' - ' No
		and entirely as the same would have			
assignr					
40.00		thout further compensation but at as			
		nee, its successors, assigns, and lega			
		ove, (8) to testify in any legal proce			
		to be in the country in which I reside			
		bit such testimony, (C) to execute all gns and legal representatives, to ca			
		aths, assignments, disclaimers, and			
		generally to do everything possible			
tenter	entatives to obtain, maintain, d	defend and enforce patent protection	for such inventi	ons and/or secu	re title to such inventions
	isignee:				
III. Rep	present, warrant and covenant	that I have the full right and lawful a			
is not p	pre-dated by any grant, license,	, or other right heretofore given by m	e to any party ot	her than the as:	ignee hereto;
		ions herein shall also bind all of my b	ieirs, executors,	administrators,	legal representatives, and
assigns	s; and			! !n sh:	a manimum and terretices
V. Ag	ree that an authorized repres	sentative of assignee is hereby gran y or desirable to comply with the ru	ited the power lac of the life of	(U HISCIL III UII stant and Trade	s assignment any roruser mark Offica at the natent
identin	ication which may be necessal of any other country for corr	y or desirable to comply with the ru ordation of this Assignment, includi	no the nower t	o insert on thi	s assignment information
	ing application number and fills				
		I this Worldwide Assignment on the	date indicated b	v mv hand and	agree that this Worldwide
Assign	ment shall be effective as of the	e earliest priority date for the aforesai	d application(s) f	or Letters Paten	
(29)					
		Day 8. C		78.	21,2016
	DAVID B FISCHER		***************************************	**********	* : 1
	Name of Inventor 2	Signature of Inventor		Date	

WORLDWIDE ASSIGNMENT					
I, the undersigned <u>JOSEPH KEV</u> the subject matter of which is de	N GOGERTY, hereby o	leclare that I am an	inventor of an inver	ntion entitled <u>MAIZ</u> 55-US-NP}	E HYBRID X00F910
declaration executed					•
		pplication Seriai No.	15/086122	. filed on March	31 2016
		= · =	13/080122		<u> </u>
				, filed on	•
Which claim(s) its earliest pho	ing to Application self	tenuary of which is h	ereby acknowledge		t of my pre-existing
PCT Application Serial which claim(s) its earliest prior For valuable considerat obligation of assignment to assign. I. Sell, assign, and transfer unto State of Iowa in the United Sta Johnston, Iowa 50131-1014, her (A) the entire right, title, at rights derived from such aforess Property ("International Convectionaries of the International Convectionaries of the International Conventions of such aforesaid apin any country whatsoever, inclipart, international and convent inventions, (5) any and all pate extensions of any patent based the entire right to (1) file such Convention or any other treaty and Trademarks of the United Stransfer all of said patents to said damages for any and all initially patents assignment; II. Agree, whenever assignee as (A) to communicate to said inventions or the rights described by said assignee, its successor including petitions, specification requested by said assignee ar representatives to obtain, main with assignee; III. Represent, warrant and covis not pre-dated by any grant, it is greet that an authorized identification which may be nearly assigns; and V. Agree that an authorized identification which may be nearly assigns.	eity to Application Seri- ion, the receipt and at gnee, which is hereby: PIONEER HI-BRED INT tes of America and hi- ein referred to as the ein referred to as the ein dinterest in and to: aid application(s) for Pintion") and any other convention or other tr as, whether joint or seplication(s) for Patent uding all provisional, it ion applications based ents for any such invention applications in its nar or understanding, (3) states of America and aid assignee in according and entirely as fully and entirely as fully and entirely as estabove, (B) to test impony to be in the cou- prohibit such testimons, assigns and legal r cons, oaths, assignment and (D) generally to di attain, defend and enforcement that I have the cense, or other right h abiligations herein shall representative of assigns and legal r consecutions are all that I have the cense, or other right h abiligations herein shall representative of assigns and legal r consecutions are all that I have the cense, or other right h abiligations herein shall representative of assigns and legal r consecutions are all that I have the cense, or other right h abiligations herein shall representative of assigns and legal r consecutions are all that I have the cense, or other right h ability or desirable t	dequacy of which is hacknowledged, I here ERNATIONAL, INC., a aving its principal places assignee, and to assignee at the aforesald apatent by virtue of the reaty or understandingle, disclosed in such ("inventions"), (4) and-provisional, division whole or in partitions in any country on such aforesaid apatents go any counterpart in a since herewith, and inventions and legal process, assigns, and legal process, assigns	corporation organi- ace of business at 7 gnee's successors ar plication(s) for Lette e International Convenience in Including rights is a aforesaid applicational, renewal, subsupon such aforesaid pupon such applicat ranted in Its name into other patent offi at or future, to the fie been held and en issignee's expense fo all representatives, a geding respecting si e or in the nearest or applications, paper arry into effect any lawful affidavits in the to aid said assign in for such inventions suthority to make the teto any party other theirs, executors, adi noted the power to the of the U.S. Pate	zed and existing un 100 NW 62 nd Aven 100 NW 62 nd Aven 101 assigns, ers Patent ("Patent vention for the Protion for the Protion for the Protion for Patent, a lons for Patent for a stitute, continuation displication(s) for ding any and all receives Patent and/or sions under the aformore the long hereby auents and to sue for will end of the term joyed by the under ountry in which such inventions or to ountry in which such inventions or to ountry in which such in form and substance, its successors and/or secure title his assignment, that it than the assignee ministrators, legal in linsert in this assignment and Trademark	ider the laws of the nue, P.O. Box 1014, ""), (2) any priority tection of industrial my and all member isional applications, and/or related to or any such inventions in, continuations-in-Patent and/or such exams, relssues and such inventions; (8) resald international inssioner of Patents thorized to issue or and recover profits or terms for which reights described the rights described the testimony is legal excessary or required of this instrument, ince which may be assigns, and legal et to such inventions it such assigned right hereto; representatives, and genment any further Office or the patent
office of any other country for recordation of this Assignment, including the power to insert on this assignment information regarding application number and filing date when known.					
In Witness Whereof, I have executed this Worldwide Assignment on the date indicated by my hand and agree that this Worldwide					
Assignment shall be effective as of the earliest priority date for the aforesald application(s) for Letters Patent.					
		9		2-14-11	•
JOSEPH KEVIN GOG	EKTY -	- Joseph KC=	OLIVE))
Name of Inventor 3		Signature of Inventor	0 0	Date	

REEL: 039331 FRAME: 0415

I the water to the second	WORLDWIDE ASSIGN	<u>IMENT</u>		
I, the undersigned <u>EDWIN MICHAEL GROTE</u> , here the subject matter of which is described in the an	eby declare that I am an	inventor of an inve	ention entitled i	MAIZE HYRRID YOOFQIO
The application of the applicati	plication for patent (Attor	rney Docket No: <u>69</u>	955-US-NP)	
deciaration executed on				
United States Of America Pate	ent Application Serial No.	15/086122	, filed on Ma	rch 21 2016
PCI Application Serial No.	filed on	_15/000122		<u>ICH 31, 2016</u> ,
which claim(s) its earliest priority to Application	Serial No.		, filed on	
For valuable consideration, the receipt ar	nd adequacy of which is h	ereby acknowledge	, med on ed_and in fulfille	ment of my pro ovieties
o	PIN ACKOOWIGAGAA I baca	har.		
i. Sell, assign, and transfer unto PIONEER HI-BRED	INTERNATIONAL INC =	corporation orga-	ized and existing	Tunder the laws of the
and office offices of Afficiated all	u navine irs bribčinai bia	CO Of buciones at 1	7100 NILLI CO ^{ng} .	Venue PO Roy 1014
Total to the sound forth, the fell fell for for as	lne assignee, and to accio	DAR'S SUCCESSORS A	nd accions	
to, the entire right, title, and interest in and	to: (1) the aforesaid ann	dication/st for Late	D 100 .	tent"). (2) any priority
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Inventions, (5) any and all patents for any such in extensions of any patent based in whole or in part	wentions in any country	whatsoever, includ	ding any and all	reexams, reissues and
extensions of any patent based in whole or in part the entire right to (1) file such applications in its	upon such aforesalo app	olication(s) for Lette	ers Patent and/o	or such Inventions; (B)
the entire right to (1) file such applications in its Convention or any other treaty or understanding, and Trademarks of the United States of America	(2)	Tile such applicati	ions under the a	aforesaid International
and Trademarks of the United States of America a	nd any counterpart in an	anted in its name (or mine, the Co	mmissioner of Patents
transfer all of said patents to said assignee in acco	rdance herewith, and 14	y other patent offic) onforce said nate	ce being nereby	authorized to issue or
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said patents may be granted, as fully and entirely	as the same would have	heen held and eni	oved by the up	rm or terms for which
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with assignee,				
III. Represent, warrant and covenant that I have the	e full right and lawful aut	hority to make this	s assignment, th	at such assigned right
is not pre-dated by any grant, license, or other right	neretofore given by me t	to any party other i	than the assigne	e hereto;
IV. Agree that my grants and obligations herein sh assigns; and	all also bind all of my hei	rs, executors, adm	inistrators, legal	representatives, and
	rrianno is boroby succes	. al Ali		
V. Agree that an authorized representative of a identification which may be necessary or desirable office of any other country for recordation of the	to comply with the rules	of the 116 Peter	nsert in this ass	signment any further
office of any other country for recordation of the	is Assignment including	the power to in-	t and Irademari	Coffice or the patent
regarding application number and filing date when I	(nown.	, the power to its	seir on fills 922	aignment information
In Witness Whereof, I have executed this Worldwi	de Assianment on the da	to indicated by my	though and source	- ala al-1- 111- 11 - 11
Assignment shall be effective as of the earliest priori	ty date for the aforesold a	notication(s) for the	mand and agree	e that this worldwide
Assignment shall be effective as of the earliest priority date for the aforesaid application(s) for Letters Patent.				
EDWIN MICHAEL GROTE	[/////		7-15	-2016
Name of Inventor 4	Signature of Inventor	//		
	Signature of Mixellion, e		Date	

WORLDWIDE ASSIGNMENT

	AAOMEDAAIDE WOOIGIAIAIEIA I	
I, the undersigned <u>WADE EUGENE ODLAND</u> , he the subject matter of which is described in the	ereby declare that I am an inventor of ar application for patent (Attorney Docket N	invention entitled MAIZE HYBRID X00F910 o: 6955-US-NP)
declaration executed on		
111	atent Application Serial No. 15/086122	, filed onMarch 31, 2016
PCT Application Serial No.	filed on	
which claim(s) its earliest priority to Applicati		, filed on
For valuable consideration, the receipt	and adequacy of which is hereby acknow	riedged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is h		and the state of the
I. Sell, assign, and transfer unto PIONEER HI-BR	ED INTERNATIONAL, INC., a corporation of	organized and existing under the laws of the
State of Iowa in the United States of America	and having its principal place of busines	s at 7100 NW 62 nd Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred to	as the assignee, and to assignee's success	ors and assigns,
(A) the entire right, title, and interest in a	ind to: (1) the aforesaid application(s) fo	r Letters Patent ("Patent"), (2) any priority
rights derived from such aforesaid application(s) for Patent by virtue of the Internationa	Convention for the Protection of Industrial
Property ("International Convention") and an	y other treaty or understanding for int	ellectual property for any and all member
countries of the International Convention or o	ther treaty or understanding, including r	ights in any and all provisional applications,
(3) any and all of my inventions, whether join arising out of such aforesaid application(s) for	nt or sole, disclosed in such aforesald ap	procuping our racers, and/or relaced to or objections for Datant for any such inventions
ansing out of such aloresald application(s) for in any country whatsoever, including all provis	ratent (inventions), (4) any and an ap lonal man-provisional divisional renewa	substitute continuation continuations-in-
part, international and convention application:	c based in whole or in nart upon such afo	resaid application(s) for Patent and/or such
inventions, (5) any and all patents for any suc	h inventions in any country whatsoever.	including any and all reexams, reissues and
extensions of any patent based in whole or in	part upon such aforesald application(s) fo	r Letters Patent and/or such Inventions; (B)
the entire right to (1) file such applications in	its name or in my name, (2) file such ap	plications under the aforesaid International
Convention or any other treaty or understand	ing, (3) have said patents granted in its r	name or mine, the Commissioner of Patents
and Trademarks of the United States of American	ca and any counterpart in any other pater	nt office being hereby authorized to issue or
transfer all of said patents to said assignee in	accordance herewith, and (4) enforce sal	d patents and to sue for and recover profits
and damages for any and all infringements the	ereof, whether past, present or future, to	The full end of the term of terms for which
said patents may be granted, as fully and enti	telà az tue zawe monio uane peru ueio a	un sittoken ok me minerzistien winner miz
assignment; II. Agree, whenever assignee asks, without fur	ther commencation but at accionac's evner	ose for actual and reasonable costs incurred.
In the communicate to cald accioned its	uccessors, assigns, and legal representati	ves, any facts known to me respecting such
Inventions or the rights described above, (B)	to testify in any legal proceeding respec	ting such inventions or the rights described
above, the location of that testimony to be in	the country in which I reside or in the nea	rest country in which such testimony is legal
should my country of residence prohibit such to	estimony, (C) to execute all applications,	papers or instruments necessary or required
by said assignee, its successors, assigns and	legal representatives, to carry into effect	it any of the provisions of this instrument,
including petitions, specifications, oaths, ass	ignments, disclaimers, and lawful affida	vits in form and substance which may be
requested by said assignee and (D) generall	y to do everything possible to aid said	assignee, its successors, assigns, and legal
representatives to obtain, maintain, defend an	d enforce patent protection for such inve	ntions and/or secure title to such inventions
with assignee;	The same of the second state of the second sta	ala alia aminamana that everlar actional violat
III. Represent, warrant and covenant that I ha is not pre-dated by any grant, license, or other	he the true tight sun iswin annoutly to in	extension than the acciones borsto
is not pre-dated by any grant, incense, or other iV. Agree that my grants and obligations here	in chall also hind all of mu beire, executor	administrators leval representatives, and
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V. Agree that an authorized representative	of assignee is hereby granted the pow	er to insert in this assignment any further
identification which may be necessary or desi	rable to comply with the rules of the U.S	. Patent and Trademark Office or the patent
office of any other country for recordation	of this Assignment, including the power	r to insert on this assignment information
regarding application number and filing date w		
In Witness Whereof, I have executed this Wo	rldwide Assignment on the date indicated	I by my hand and agree that this Worldwide
Assignment shall be effective as of the earliest		
	a sa a a	8
WADE EUGENE ODLAND	Wode Odlank	3/18/2016
Name of Inventor 5	Signature of Inventor	Date
Commence of the commence of th	10 miles (10 miles 10 miles 1	

		WOKLDWIDE ASSIGN			
	<pre>indersigned <u>ERIC SCOTT RIEDEMAN</u> t matter of which is described in the</pre>				MAIZE HYBRID X00F910 the
	declaration executed on	e application for patent (Attorney	Docket No. 695	<u>3-U3-NP</u>)	
\boxtimes	United States Of America	Patent Application Social No.	45 (006400	filed on	
		Patent Application Serial No.	15/086122	, nied on	March 31, 2016
L) Whic	PCT Application Serial No. h claim(s) its earliest priority to App	filed on		, filed	_
*******	For valuable consideration, the re		ereby acknowled		
obligat	ion of assignment to assignee, which			geu, anu m	unniment of my pre-existing
	assign, and transfer unto PIONEER			anized and ex	sisting under the laws of the
	of Iowa in the United States of Am				
	on, Iowa 50131-1014, herein referre				·
) the entire right, title, and interes				
	derived from such aforesaid applica				
Proper	ty ("International Convention") an	d any other treaty or understa	nding for intelle	ctual proper	ty for any and all member
countri	ies of the International Convention	or other treaty or understandin	g, including right	s in any and	all provisional applications,
(5) an	y and all of my inventions, whether	er joint or sole, disclosed in such	atoresaid applic	ation(s) for F	Patent, and/or related to or
	out of such aforesald application(s) country whatsoever, including all p				
	iternational and convention applica				
Inventi	ons, (5) any and all patents for an	v such Inventions in any country	whatsoever, inc	luding anv ar	nd all reexams, reissues and
	ions of any patent based in whole o				
the en	tire right to (1) file such application	ns in its name or in my name, (2) file such applic	ations under	the aforesaid Internationa
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	r all of said patents to said assigne				
	mages for any and all infringement				
	itents may be granted, as fully and	entirely as the same would have	been held and o	enjoyed by th	ne undersigned without this
assignr	nent; ee, whenever assignee asks, withou	t further companyation but at ac-	ianos's sympass	for committee	d managements and the summer of
	to communicate to said assignee,				
	ons or the rights described above,				
	the location of that testimony to be				
	my country of residence prohibit so				
by said	l assignee, its successors, assigns	and legal representatives, to car	rry into effect a	ny of the pro	ovisions of this instrument,
	ng petitions, specifications, oaths,				
	ted by said assignee and (D) gen				
	entatives to obtain, maintain, defen	nd and enforce patent protection	for such Inventio	ns and/or se	cure title to such Inventions
	signee;	I have the full right and lawful a		4b tt	
	present, warrant and covenant that pre-dated by any grant, license, or o				
	ree that my grants and obligations				
assigns			cii s, cacouroi s, u		s, icadi icpicsentatives, and
_	ree that an authorized representa	itive of assignee is hereby gran	ted the power t	o insert in t	his assignment any further
	ication which may be necessary or				
	of any other country for recordat		ng the power to	insert on t	his assignment information
_	ing application number and filing da				
	ness Whereof, I have executed this	_	•	•	_
Assign	ment shall be effective as of the earl	liest priority date for the aforesaid	application(s) fo	r Letters Pate	ent.
		<i>,</i>			
	ERIC SCOTT RIEDEMAN	En Riden		7.1	7-16
	TITE OCCITION TO THE TABLE	-\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~	, ,	, , ,

Signature of Inventor

Name of Inventor 6

PATENT REEL: 039331 FRAME: 0418

Date

WORLDWIDE ASSIGNMENT I, the undersigned GERHARD P WEBER, hereby declare that I am an inventor of an invention entitled MAIZE HYBRID X00F910 the

subject matter of which is described in the application for patent (Attorney Docket No: 6955-US-NP)

L	declaration executed on			.d
\boxtimes	United States Of America	Patent Application Serial No.	15/086122 , filed	on March 31, 2016
	PCT Application Serial No.	filed on		
whic	h claim(s) its earliest priority to Ap	plication Serial No.	, }	filed on
		receipt and adequacy of which is hi	reby acknowledged, and	f in fulfillment of my pre-existing
obligat	ion of assignment to assignee, wh	ich is hereby acknowledged, I herel	W :	
i. Seli,	assign, and transfer unto PiONEEF	R HI-BRED INTERNATIONAL, INC., a	corporation organized ar	id existing under the laws of the
State o	of Iowa in the United States of Ar	merica and having its principal pla	e of business at 7100 N	IW 62 nd Avenue, P.O. Box 1014,
Johnst	on, Iowa 50131-1014, herein refer	red to as the assignee, and to assig	nee's successors and assi	gris,
(A	the entire right, title, and intere	est in and to: (1) the aforesaid app	lication(s) for Letters Pa	tent ("Patent"), (2) any priority
		cation(s) for Patent by virtue of the		
Proper	ty ("International Convention") a	and any other treaty or understar	iding for intellectual pro	operty for any and all member
countri	es of the International Conventic	on or other treaty or understanding	,, including rights in any	and all provisional applications,
(3) an	y and all of my inventions, wheth	her joint or sole, disclosed in such	aforesaid application(s)	for Patent, and/or related to or
arising	out of such aforesaid application	(s) for Patent ("Inventions"), (4) a	ny and all applications fo	or Patent for any such inventions
	The state of the s	provisional, non-provisional, divisi		
•		cations based in whole or in part u	•	
Inventi	ons, (5) any and all patents for a	iny such inventions in any country	whatsoever, including ar	ny and all reexams, reissues and
extens	ions of any patent based in whole	or in part upon such aforesaid app	lication(s) for Letters Par	tent and/or such Inventions; (B)
		ons in its name or in my name, (2	7 7	
Conve	ntion or any other treaty or unde	rstanding, (3) have said patents gr	inted in its name or min	ie, the Commissioner of Patents
		America and any counterpart in an	· · · · · · · · · · · · · · · · · · ·	
		ee in accordance herewith, and (4		
		nts thereof, whether past, present		
said pa	itents may be granted, as fully an	d entirely as the same would have	been held and enjoyed	by the undersigned without this
assigni	nent;			

- II. Agree, whenever assignee asks, without further compensation but at assignee's expense for actual and reasonable costs incurred,
- (A) to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to me respecting such inventions or the rights described above, (B) to testify in any legal proceeding respecting such inventions or the rights described above, the location of that testimony to be in the country in which I reside or in the nearest country in which such testimony is legal should my country of residence prohibit such testimony, (C) to execute all applications, papers or instruments necessary or required by said assignee, its successors, assigns and legal representatives, to carry into effect any of the provisions of this instrument, including petitions, specifications, oaths, assignments, disclaimers, and lawful affidavits in form and substance which may be requested by said assignee and (D) generally to do everything possible to aid said assignee, its successors, assigns, and legal representatives to obtain, maintain, defend and enforce patent protection for such inventions and/or secure title to such inventions with assignee;
- III. Represent, warrant and covenant that I have the full right and lawful authority to make this assignment, that such assigned right is not pre-dated by any grant, license, or other right heretofore given by me to any party other than the assignee hereto;
- IV. Agree that my grants and obligations herein shall also bind all of my heirs, executors, administrators, legal representatives, and assigns; and
- V. Agree that an authorized representative of assignee is hereby granted the power to insert in this assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office or the patent office of any other country for recordation of this Assignment, including the power to insert on this assignment information regarding application number and filing date when known.

In Witness Whereof, I have executed this Worldwide Assignment on the date indicated by my hand and agree that this Worldwide Assignment shall be effective as of the earliest priority date for the aforesaid application(s) for Letters Patent.

GERHARD P WEBER

Name of Inventor 8

Signature of Inventor

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in fulfillment of a pre-existing obligation of assignment, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, as indicated below, unto

PIONEER HI-BRED INTERNATIONAL, INC. 7100 NW 62nd Avenue P.O. Box 1014 Johnston, Iowa 50131-1014

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the inventions in all plant breeding and research inventions, including all Maize Hybrid and Maize Inbred inventions, and including all improvements to said inventions ("Inventions")

as set forth in this United States Patent Application

	executed concurrently herewith				
	executed on				
X	Serial No.15/086122 filed	March 31	, 2016		

including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuation-in-part, international, and Convention applications based in whole or in part upon said Inventions or upon said Applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said Inventions or upon said Applications and every priority right that is or may be predicated upon or arise from said Inventions, said Applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said Inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; said assignment including the right to bring legal proceedings and obtain any relief to which the undersigned would have been entitled if this assignment had not been made, in respect of any infringements of the undersigned's rights in relation to said inventions, Applications and Letters Patent which occur before or after the date of this assignment; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said Inventions, patent applications and Letters Patent shall be held and

ASSIGNMENT

enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said Inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said Inventions, and to testify in any proceedings relating to said Inventions, patent applications, Letters Patent, and to bind our heirs, legal representatives, and assigns, promptly to communicate to said Assignee or its representatives any facts known to us relating to said Inventions, to testify in any interference or legal proceedings involving said Inventions, the location of that testimony to be in the country in which we reside or in the nearest country in which such testimony is legal should our country of residence prohibit such testimony, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors or assigns to secure patent or similar protection for said Inventions and to vest in the Assignee complete title to said Inventions and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

The undersigned hereby grants an authorized representative of Assignee the power to insert in this Assignment any further identification for any invention which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office or the Patent Office of any other country for recordation of this Assignment.

ASSIGNMENT

I, Joseph Szalma, hereby declare that I am a citizen of the United States and residing at 5607 Reef Road, Mentor-On-The-Lake, OH 44060-2537 and that I am executing and signing the assignment to which this is attached as sole heir of the estate of Stephen J. Szalma (Case No. 34-PR-14-20):							
Stephen Joseph Szalma	Signature: By Joseph Szalma in his capacity as sole heir of the estate of Stephen Joseph Szalma	Date: 3/30/スロル					

I, Joseph Szalma, hereby declare that I am a citizen of the United States and residing at 5607 Reef Road, Mentor-On-The-Lake, OH 44060-2537 and that I am executing and signing the assignment to which this is attached as sole heir of the estate of Stephen J. Szalma (Case No. 34-PR-14-20).

That, upon information and belief, I aver those facts that the inventor is required to state.

Date: 3/30/2016

Signature of Sole Heir: fragh S Sylm,

24315892.1

ASSIGNMENT

PATENT REEL: 039331 FRAME: 0422

RECORDED: 08/03/2016