### 05/12/2017 504364797

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4411489

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
MARTIN ARBELBIDE	02/11/2017
TRAVIS KORRY COLEMAN	02/03/2017
MARTIN A FABRIZIUS	02/03/2017
GUSTAVO MARCELO GARCIA	02/13/2017
CHRISTOPHER MICHAEL SCHAEFER	02/08/2017
MATTHEW DAVID WALCH	02/14/2017

## **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:	15447550

# **CORRESPONDENCE DATA**

Fax Number: (515)535-3924

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 LYNDA FITZPATRICK **Correspondent Name:** 7250 NW 62ND AVE Address Line 1: Address Line 4: JOHNSON, IOWA 50131

ATTORNEY DOCKET NUMBER:	7301-US-NP
NAME OF SUBMITTER:	LYNDA M. FITZPATRICK
SIGNATURE:	/Imfitzpatrick/
DATE SIGNED:	05/12/2017

**Total Attachments: 6** 

**PATENT** REEL: 042354 FRAME: 0637

504364797



# **WORLDWIDE ASSIGNMENT**

I, the undersigned MARTIN ARBELBIDE, herel subject matter of which is described in the app	by declare that I am an inversion for patent (Attorney	ntor of an inventi	ion entitled <u>M</u> 1-US-NP )	IAIZE HYBRID X90K678 the
declaration executed on	meation for patent (Attorney	200Met 1101 <u>2003</u>		
	Patent Application Serial No.	15/447550	, filed on	March 2, 2017
PCT Application Serial No.	filed on	13/ 11/330		
which claim(s) its earliest priority to Applicat			, filed o	on .
For valuable consideration, the receip	ot and adequacy of which is h	ereby acknowled		
obligation of assignment to assignee, which is				
I. Sell. assign, and transfer unto PIONEER HI-B	RED INTERNATIONAL, INC., a	corporation orga	anized and exis	sting under the laws of the
State of Iowa in the United States of America	a and having its principal pla	ice of business a	t 7100 NW 62	<sup>2nd</sup> Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred to	o as the assignee, and to assig	gnee's successors	and assigns,	
(A) the entire right, title, and interest in	and to: (1) the aforesaid app	olication(s) for Le	etters Patent (	"Patent"), (2) any priority
rights derived from such aforesaid application	(s) for Patent by virtue of the	International Co	onvention for t	the Protection of Industrial
Property ("International Convention") and a	ny other treaty or understa	nding for intelle	ctual property	y for any and all member
countries of the International Convention or	other treaty or understandin	g, including right	is in any and a	ations and/or related to or
(3) any and all of my inventions, whether jo arising out of such aforesaid application(s) for				
in any country whatsoever, including all provi				
part, international and convention application				
Inventions, (5) any and all patents for any su				
extensions of any patent based in whole or in				
the entire right to (1) file such applications in				
Convention or any other treaty or understand	ding, (3) have said patents g	ranted in its nam	ne or mine, the	e Commissioner of Patents
and Trademarks of the United States of Amer				
transfer all of said patents to said assignee in	accordance herewith, and (	4) enforce said p	atents and to	sue for and recover profits
and damages for any and all infringements th	ereof, whether past, presen	or future, to the	e full end of th	ne term or terms for which
said patents may be granted, as fully and ent	irely as the same would have	e been held and	enjoyed by th	e undersigned without this
assignment;		-i	for actual and	l reasonable costs incurred
II. Agree, whenever assignee asks, without fur (A) to communicate to said assignee, its	rtner compensation but at as	l roprocontativos	ior actual and	own to me respecting such
Inventions or the rights described above, (B)	to testify in any legal proce	eding respecting	s such Inventic	ons or the rights described
above, the location of that testimony to be in				
should my country of residence prohibit such	testimony. (C) to execute all	applications, par	ers or instrum	nents necessary or required
by said assignee, its successors, assigns and	legal representatives, to ca	rry into effect a	ny of the pro	visions of this instrument,
including petitions, specifications, oaths, ass				
requested by said assignee and (D) general	ly to do everything possible	e to aid said ass	ignee, its suc	cessors, assigns, and legal
representatives to obtain, maintain, defend a	nd enforce patent protection	for such Invention	ons and/or sec	cure title to such Inventions
with assignee;				
III. Represent, warrant and covenant that I ha				
is not pre-dated by any grant, license, or othe				
IV. Agree that my grants and obligations her	ein shall also bind all of my h	ieirs, executors, a	administrators	, legal representatives, and
assigns; and		والمرازمين معام الدخو	ta incort in th	his assignment any further
V. Agree that an authorized representative identification which may be necessary or des				
office of any other country for recordation	of this Assignment includi	ng the nower to	n insert on th	nis assignment information
regarding application number and filing date		ing the power to		
In Witness Whereof, I have executed this Wo		date indicated by	mv hand and	agree that this Worldwide
Assignment shall be effective as of the earlies				
_				
	MAISILLE	O	2/.	1/12
MARTIN ARBELBIDE			$\frac{2/\iota}{2}$	( ( ' /
Name of Inventor 1	Signature of Inventor		Date	

	WORLDWIDE ASSIGNMENT		
I, the undersigned TRAVIS KORRY COLEMA the subject matter of which is described in t			
declaration executed on			_,
United States Of America	Patent Application Serial No. 15/447	550 , filed on	March 2, 2017 ,
PCT Application Serial No.	filed on	·	,
which claim(s) its earliest priority to Applic		, filed	- on ,
For valuable consideration, the rec	eipt and adequacy of which is hereby ac	knowledged, and in f	ulfillment of my pre-existing
obligation of assignment to assignee, which	is hereby acknowledged, I hereby:		-
I. Sell, assign, and transfer unto PIONEER HI			
State of Iowa in the United States of Amer			2 <sup>nd</sup> Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred			
	in and to: (1) the aforesaid application(		
rights derived from such aforesaid application			
Property ("International Convention") and			
countries of the International Convention o			
(3) any and all of my inventions, whether			
arising out of such aforesaid application(s) f in any country whatsoever, including all pro			
part, international and convention applicati			
Inventions, (5) any and all patents for any			
extensions of any patent based in whole or			
the entire right to (1) file such applications			
Convention or any other treaty or understa			
and Trademarks of the United States of Ame			
transfer all of said patents to said assignee			
and damages for any and all infringements			
said patents may be granted, as fully and e	ntirely as the same would have been he	ld and enjoyed by th	ne undersigned without this
assignment;			
II. Agree, whenever assignee asks, without f			
	s successors, assigns, and legal represer		
Inventions or the rights described above, (I			
above, the location of that testimony to be i should my country of residence prohibit suc			
by said assignee, its successors, assigns an			
including petitions, specifications, oaths, a			
requested by said assignee and (D) gener			
representatives to obtain, maintain, defend			
with assignee;	, .	,	
III. Represent, warrant and covenant that I I	have the full right and lawful authority t	o make this assignme	ent, that such assigned right
is not pre-dated by any grant, license, or oth			
IV. Agree that my grants and obligations he	erein shall also bind all of my heirs, exec	utors, administrators	, legal representatives, and
assigns; and			
V. Agree that an authorized representation			
dentification which may be necessary or de			
office of any other country for recordatio		ower to insert on th	nis assignment information
regarding application number and filing date			
In Witness Whereof, I have executed this W			_
Assignment shall be effective as of the earlie	st priority date for the aforesaid applicati	on(s) for Letters Pater	nt.
TD AVIC MODDY COLEMAN	- 1 da		2 Dall
TRAVIS KORRY COLEMAN	C: OV		3, 2017
Name of Inventor 2	Signature of Inventor	Date	

# WORLDWIDE ASSIGNMENT I, the undersigned MARTIN A FABRIZIUS, hereby declare that I am an inventor of an invention entitled MAIZE HYBRID X90K678 the

Patent Application Serial No. 15/447550

1. Sell, assign, and transfer unto PIONEER HI-BRED INTERNATIONAL, INC., a corporation organized and existing under the laws of the State of lowe in the United States of America and having its principal place of business at 7100 NW 62<sup>nd</sup> Avenue, P.O. Box 1014,

filed on

For valuable consideration, the receipt and adequacy of which is hereby acknowledged, and in fulfillment of my pre-existing

subject matter of which is described in the application for patent (Attorney Docket No.: 7301-US-NP\_\_)

declaration executed on

United States Of America

PCT Application Serial No.

which claim(s) its earliest priority to Application Serial No.

obligation of assignment to assignee, which is hereby acknowledged, I hereby:

N

onston, lowa 50131-1014, herein referred to as the assignee, and to assignee's successors and assigns,  (A) the entire right, title, and interest in and to: (1) the aforesaid application(s) for Letters Patent ("Patent"), (2) any priority ghts derived from such aforesaid application(s) for Patent by virtue of the International Convention for the Protection of Industrial
roperty ("International Convention") and any other treaty or understanding for intellectual property for any and all member ountries of the International Convention or other treaty or understanding, including rights in any and all provisional applications, 3) any and all of my inventions, whether joint or sole, disclosed in such aforesaid application(s) for Patent, and/or related to or rising out of such aforesaid application(s) for Patent ("Inventions"), (4) any and all applications for Patent for any such Inventions
i any country whatsoever, including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuations-in- art, international and convention applications based in whole or in part upon such aforesaid application(s) for Patent and/or such inventions, (5) any and all patents for any such Inventions in any country whatsoever, including any and all reexams, reissues and ixtensions of any patent based in whole or in part upon such aforesaid application(s) for Letters Patent and/or such Inventions; (8) the entire right to (1) file such applications in its name or in my name, (2) file such applications under the aforesaid International convention or any other treaty or understanding, (3) have said patents granted in its name or mine, the Commissioner of Patents and Trademarks of the United States of America and any counterpart in any other patent office being hereby authorized to issue or ansfer all of said patents to said assignee in accordance herewith, and (4) enforce said patents and to sue for and recover profits and damages for any and all infringements thereof, whether past, present or future, to the full end of the term or terms for which aid patents may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned without this
sa parenta may be granted, as they and then by as the same would have been held and enjoyed by the andersigned with the constant of the angle of the
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 exentions or the rights described above, (B) to testify in any legal proceeding respecting such inventions or the rights described bove, 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 hould my country of residence prohibit such testimony. (C) to execute all applications, papers or instruments necessary or required y said assignee, its successors, assigns and legal representatives, to carry into effect any of the provisions of this instrument, including petitions, specifications, paths, assignments, disclaimers, and lawful affidavits in form and substance which may be equested by said assignee and (O) generally to do everything possible to aid said assignee, its successors, assigns, and legal expresentatives to obtain, maintain, defend and enforce patent protection for such Inventions and/or secure title to such Inventions with assignee;  I. Represent, warrant and covenant that I have the full right and lawful authority to make this assignment, that such assigned right
not pre-dated by any grant, license, or other right heretofore given by me to any party other than the assignee hereto; /. Agree that my grants and obligations herein shall also bind all of my heirs, executors, administrators, legal representatives, and ssigns; and
. Agree that an authorized representative of assignee is hereby granted the power to insert in this assignment any further dentification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office or the patent of the of any other country for recordation of this Assignment, including the power to insert on this assignment information agarding application number and filing date when known.
Witness Whereof, I have executed this Worldwide Assignment on the date indicated by my hand and agree that this Worldwide
essignment shall be effective as of the earliest priority date for the aforesaid application(s) for Letters Patent.
MARTIN A FABRIZIUS 2/3/17
Name of Inventor 3 Signature of Inventor Date

PATENT REEL: 042354 FRAME: 0641

, filed on March 2, 2017

# WORLDWIDE ASSIGNMENT

I, the undersigned <u>GUSTAVO MARCELO GARG</u> X90K678 the subject matter of which is describe	<u>CIA</u> , hereby declare that I am an inve		HYBRID
declaration executed on		-	
200000000000000000000000000000000000000	atent Application Serial No. 15/44755	, filed on March 2, 2017	. *
<del></del>		, , , , , , , , , , , , , , , , , , ,	
which claim(s) its earliest priority to Application	filed on on Serial No.	, filed on	ž.
For valuable consideration, the receipt	and adequacy of which is hereby ackn	owledged, and in fulfillment of my pre	-existing
obligation of assignment to assignee, which is h			•
I. Sell, assign, and transfer unto PIONEER HI-BRI			
State of Iowa in the United States of America			ox 1014,
Johnston, Iowa 50131-1014, herein referred to	-		
(A) the entire right, title, and interest in a			
rights derived from such aforesaid application(s	•		
Property ("International Convention") and any countries of the International Convention or of			
(3) any and all of my inventions, whether join	-		
arising out of such aforesaid application(s) for F			
in any country whatsoever, including all provisi			
part, international and convention applications			
Inventions, (5) any and all patents for any suci	h Inventions in any country whatsoeve	r, including any and all reexams, reiss	sues and
extensions of any patent based in whole or in p			
the entire right to (1) file such applications in		• •	
Convention or any other treaty or understandi			
and Trademarks of the United States of Americ		- · · · · · · · · · · · · · · · · · · ·	
transfer all of said patents to said assignee in a and damages for any and all infringements the			
said patents may be granted, as fully and entire			
assignment;	ary as the same would have been here	and enjoyed by the undersigned with	1006 01115
II. Agree, whenever assignee asks, without furth	her compensation but at assignee's exp	ense for actual and reasonable costs i	ncurred,
(A) to communicate to said assignee, its su	accessors, assigns, and legal represent	atives, any facts known to me respect	ing such
Inventions or the rights described above, (B) t			
above, the location of that testimony to be in the			
should my country of residence prohibit such to			
by said assignee, its successors, assigns and lincluding petitions, specifications, oaths, assig			
requested by said assignee and (D) generally			
representatives to obtain, maintain, defend and			
with assignee;			
III. Represent, warrant and covenant that I hav	e the full right and lawful authority to	make this assignment, that such assigr	ned right
is not pre-dated by any grant, license, or other r	right heretofore given by me to any par	ty other than the assignee hereto;	
IV. Agree that my grants and obligations herein	n shall also bind all of my heirs, execut	ors, administrators, legal representati	ives, and
assigns; and			~
V. Agree that an authorized representative			'
identification which may be necessary or desiral office of any other country for recordation of	- ,		-
regarding application number and filing date wh		rer to insert on this assignment into	// mation
In Witness Whereof, I have executed this World		ed by my hand and agree that this W.	aeldwide
Assignment shall be effective as of the earliest p			ULIUWIOD
resignment shan or effective as of the eathest b	atority date for the atoresaid application	ns) for Leners i awit.	
		8 .8	
GUSTAVO MARCELO GARCIA	_ Lulosopuil	43/02/2017	
Name of Inventor 4	Signature of Inventor	$\frac{43/02/2017}{\text{Date}}$	

	WORLDWIDE ASSIGN	<u>MENT</u>			
, the undersigned <u>CHRISTOPHER MICHAEL S</u>	<u> </u>				<u>'E HYBRID</u>
K90K678 the subject matter of which is descr	ibed in the application for pat	ent (Attorney Do	ocket No: <u>730</u>	1-US-NP)	
declaration executed on			cu .		
United States Of America	Patent Application Serial No.	15/447550	, filed on	March 2, 2017	
PCT Application Serial No.	filed on		C1 I		
which claim(s) its earliest priority to Applica		anaby a aka ayyla	, filed		
For valuable consideration, the receipbligation of assignment to assignee, which is			agea, ana in i	uninment of my pr	e-existing
. Sell, assign, and transfer unto PIONEER HI-I			anized and ex	isting under the la	ws of the
State of Iowa in the United States of Americ	ca and having its principal pla	ice of business	at 7100 NW 6	2 <sup>nd</sup> Avenue, P.O. I	Box 1014,
Johnston, Iowa 50131-1014, herein referred t				,	,
(A) the entire right, title, and interest in				("Patent"), (2) ar	ny priority
ights derived from such aforesaid application	n(s) for Patent by virtue of the	e International C	onvention for	the Protection of	Industrial
Property ("International Convention") and a	any other treaty or understa	nding for intelle	ectual proper	ty for any and all	l member
countries of the International Convention or	•				
3) any and all of my inventions, whether jo					
arising out of such aforesaid application(s) fo					
n any country whatsoever, including all provert, international and convention application					
nventions, (5) any and all patents for any s	•	•			
extensions of any patent based in whole or in					
the entire right to (1) file such applications in	•				
Convention or any other treaty or understar					
and Trademarks of the United States of Ame					
ransfer all of said patents to said assignee ir	n accordance herewith, and (	4) enforce said p	patents and to	sue for and recov	ver profits
and damages for any and all infringements t					
said patents may be granted, as fully and en	tirely as the same would have	e been held and	enjoyed by th	ne undersigned wi	thout this
assignment;					
I. Agree, whenever assignee asks, without fu	•	-			
<ul> <li>(A) to communicate to said assignee, its nventions or the rights described above, (B</li> </ul>		•			
above, the location of that testimony to be in					
should my country of residence prohibit such	-				
by said assignee, its successors, assigns and					
ncluding petitions, specifications, oaths, as					
equested by said assignee and (D) genera	Illy to do everything possible	to aid said as:	signee, its su	ccessors, assigns,	and legal
epresentatives to obtain, maintain, defend a	and enforce patent protection	for such Inventi	ons and/or se	cure title to such I	nventions
with assignee;					
II. Represent, warrant and covenant that I h	_	*	_		gned right
s not pre-dated by any grant, license, or other					المحم مميا
<ul><li>V. Agree that my grants and obligations herassigns; and</li></ul>	rein shall also bind all of my n	eirs, executors,	administrator	s, iegai representa	tives, and
J. Agree that an authorized representative	e of assignee is hereby gran	ted the nower	to insert in t	his assignment ar	ny further
dentification which may be necessary or de					
office of any other country for recordation					
regarding application number and filing date	<del>-</del>			J	
in Witness Whereof, I have executed this W	orldwide Assignment on the	date indicated by	y my hand an	d agree that this V	Vorldwide
Assignment shall be effective as of the earlies	et priority date for the aforesaid	application(s) f	or Letters Pate	ent.	
		•			
avintano ny manana					
CHRISTOPHER MICHAEL	11.011		- /m	110	
SCHAEFER	Chin behoch		2/8,	/ ' /	

Signature of Inventor

Name of Inventor 5

**PATENT REEL: 042354 FRAME: 0643** 

Date

# WORLDWIDE ASSIGNMENT

	WORLDWIDE ASSIGNIVIENT		
l, the undersigned MATTHEW DAVID WALCH, he			K678
the subject matter of which is described in the ap	pplication for patent (Attorney Doc	:ket No: <u>/301-US-NP</u> )	
declaration executed on		<b>51</b>	
	ent Application Serial No. <u>15/44</u>	7550 , filed on <u>March 2, 2017</u> ,	,
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Application		, filed on	
	The state of the s	cknowledged, and in fulfillment of my pre-exi	isting
obligation of assignment to assignee, which is he	, , ,	stion arganized and evicting under the laws o	. <b>f</b> +h.a
l. Sell, assign, and transfer unto PIONEER HI-BRE State of Iowa in the United States of America a			
Johnston, Iowa 17 the Officed States of America a			1014,
		i(s) for Letters Patent ("Patent"), (2) any pri	iority
rights derived from such aforesaid application(s)			
Property ("International Convention") and any	The state of the s		
countries of the International Convention or oth			
(3) any and all of my inventions, whether joint		the state of the s	
arising out of such aforesaid application(s) for Pa			
n any country whatsoever, including all provision			
part, international and convention applications l			
Inventions, (5) any and all patents for any such	•	• •	
extensions of any patent based in whole or in pa the entire right to (1) file such applications in it			
Convention or any other treaty or understanding		• •	
and Trademarks of the United States of America			
transfer all of said patents to said assignee in ac			
and damages for any and all infringements there	eof, whether past, present or futu	re, to the full end of the term or terms for w	vhich
said patents may be granted, as fully and entire	y as the same would have been h	eld and enjoyed by the undersigned without	t this
assignment;			
I. Agree, whenever assignee asks, without furth	_	•	
		entatives, any facts known to me respecting	
nventions or the rights described above, (B) to above, the location of that testimony to be in the			
should my country of residence prohibit such tes		·	_
by said assignee, its successors, assigns and le			
ncluding petitions, specifications, oaths, assign			
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 Inven	tions
with assignee;			
II. Represent, warrant and covenant that I have		•	right
s not pre-dated by any grant, license, or other rig		· · ·	
<ul> <li>V. Agree that my grants and obligations herein assigns; and</li> </ul>	shall also bind all of my heirs, exe	cutors, administrators, legal representatives,	, and
7. Agree that an authorized representative o	fassignee is hereby granted the	nower to insert in this assignment any ful	rthar
dentification which may be necessary or desiral			
office of any other country for recordation of		·	
regarding application number and filing date who		5	
n Witness Whereof, I have executed this World	lwide Assignment on the date ind	cated by my hand and agree that this World	lwide
Assignment shall be effective as of the earliest pr			
·	**		
	Maril		
MATTHEW DAVID WALCH	Marcher Wald	_	
Name of Inventor 6	Signature of Inventor	Date	

PATENT REEL: 042354 FRAME: 0644

**RECORDED: 05/12/2017**