### 506393397 12/09/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6440153

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
TERRY R COLBERT	03/06/2020
MARK JACOB GADLAGE	03/12/2020
DANIEL PRESTON GORMAN	03/04/2020
THOMAS RUSSELL HENRY	03/11/2020
JILL RENEE LENNON	03/04/2020
KATHERINE LISKO MADDEN	03/18/2020
NATHAN BROOK O'BERRY	03/09/2020
JASON MICHAEL PROTHRO	03/04/2020
STEVEN TYLER THORNTON	03/23/2020

## **RECEIVING PARTY DATA**

Name:	PIONEER HI-BRED INTERNATIONAL, INC.	
Street Address:	7100 NW 62ND AVENUE	
Internal Address:	PO BOX 1014	
City:	JOHNSTON	
State/Country:	IOWA	
Postal Code:	50131-1014	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17077296

### 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: 515-535-5859

Email: IPSUPPORT@CORTEVA.COM

PIONEER HI-BRED INTERNATIONAL, INC. Correspondent Name:

Address Line 1: 7250 NW 62ND AVENUE

Address Line 2: PO BOX 552

Address Line 4: JOHNSTON, IOWA 50131-0552

ATTORNEY DOCKET NUMBER: 8406-US-NP

REEL: 054592 FRAME: 0526 506393397

PAIENI

NAME OF SUBMITTER:	LYNDA FITZPATRICK	
SIGNATURE:	/Imfitzpatrick/	
DATE SIGNED:	12/09/2020	
Total Attachments: 9		
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	WORLDWIDE ASSIGNMENT		
I, the undersigned <u>TERRY R COLBERT</u> , hereby de			<u>1897</u> the
subject matter of which is described in the application		o: <u>8406-US-NP</u> )	
$\boxtimes$ declaration executed on $3/6/2$	020		
United States Of America Pate	nt Application Serial No.	, filed on	
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Application	Serial No.	, filed on	
For valuable consideration, the receipt ar		nowledged, and in fulfillment of my pre	-existing
obligation of assignment to assignee, which is here			_
I. Sell, assign, and transfer unto PIONEER HI-BRED	INTERNATIONAL, INC., a corporati	on organized and existing under the law	ws of the
State of lowa in the United States of America an			ox 1014,
Johnston, Iowa 50131-1014, herein referred to as			
(A) the entire right, title, and interest in and	to: (1) the aforesaid application(s	for Letters Patent ("Patent"), (2) any	priority
rights derived from such aforesaid application(s) f	or Patent by virtue of the Internati	onal Convention for the Protection of I	ndustrial
Property ("International Convention") and any of	other treaty or understanding for	intellectual property for any and all	member
countries of the International Convention or other	er treaty or understanding, including	ig rights in any and all provisional appi	lications,
(3) any and all of my inventions, whether joint	or sole, disclosed in such aforesaid	application(s) for Patent, and/or relat	ted to or
arising out of such aforesaid application(s) for Pat	ent ("Inventions"), (4) any and al	applications for Patent for any such in	ventions
in any country whatsoever, including all provision	al, non-provisional, divisional, rene	ewal, substitute, continuation, continua	ıtlons-in-
part, international and convention applications be	ised in whole or in part upon such	aforesaid application(s) for Patent and	or such
Inventions, (5) any and all patents for any such is	nventions in any country whatsoe	rer, including any and all reexams, reis	sues and
extensions of any patent based in whole or in par	upon such aforesaid application(s	) for Letters Patent and/or such invent	ions; (B)
the entire right to (1) file such applications in its Convention or any other treaty or understanding	(2) have said patents granted in i	applications under the aroresald intel	mational
and Trademarks of the United States of America	nd any counternart in any other n	etant office being bereby sutbaried to	Patents
transfer all of said patents to said assignee in acco	ordance herewith and (4) enforce	said natents and to sue for and recover	issue or
and damages for any and all infringements thereo	of whether past, present or future	to the full end of the term or terms f	er which
said patents may be granted, as fully and entirely	as the same would have been hel	d and enjoyed by the undersigned with	out thic
assignment;		a and enjoyed by the undersigned with	IOUL LIIIS
II. Agree, whenever assignee asks, without further	compensation but at assignee's ex	mense for actual and reasonable costs i	ncurred
(A) to communicate to said assignee, its succ	essors, assigns, and legal represen	tatives, any facts known to me respect	ing such
inventions or the rights described above, (B) to t	estify in any legal proceeding resp	ecting such inventions or the rights d	escribed
above, the location of that testimony to be in the	country in which I reside or in the	nearest country in which such testimon	v is legal
should my country of residence prohibit such test	mony, (C) to execute all application	ns, papers or instruments necessary or	required
by said assignee, its successors, assigns and lega	al representatives, to carry into e	fect any of the provisions of this inst	trument.
including petitions, specifications, oaths, assignr	nents, disclaimers, and lawful aff	idavits in form and substance which	may be
requested by said assignee and (D) generally to	do everything possible to aid sa	id assignee, its successors, assigns, a	nd legal
representatives to obtain, maintain, defend and e	nforce patent protection for such l	oventions and/or secure title to such in	ventions
with assignee;			
III. Represent, warrant and covenant that I have t	he full right and lawful authority to	make this assignment, that such assign	ned right
is not pre-dated by any grant, license, or other righ	t heretofore given by me to any pa	rty other than the assignee hereto;	
IV. Agree that my grants and obligations herein s	hall also bind all of my heirs, execu	tors, administrators, legal representati	ves, and
assigns; and			
V. Agree that an authorized representative of	assignee is hereby granted the p	ower to insert in this assignment any	further
dentification which may be necessary or desirable	to comply with the rules of the l	J.S. Patent and Trademark Office or the	e patent
office of any other country for recordation of tregarding application number and filing date when	inis Assignment, including the po	wer to insert on this assignment info	rmation
n Witness Whereof, I have executed this Worldw	ide Assignment on the date indica	ted by my hand and agree that this Wo	orldwide
Assignment shall be effective as of the earliest prio	rity date for the aforesaid applicati	on(s) for Letters Patent.	
		, , ,	
TERRY R COLBERT	lery R. Coller	3/6/2020	
	Muyo, Could		
Name of Inventor 1	Signature of Inventor	Date	

**REEL: 054592 FRAME: 0528** 

WORLDWIDE ASSIGNMENT
, the undersigned MARK JACOB GADLAGE, hereby declare that I am an inventor of an invention entitled MAIZE HYBRID X18N897
the subject matter of which is described in the application for patent (Attorney Docket No: 8406-US-NP_)
declaration executed on $03/13/12/12$
United States Of America Patent Application Serial No, filed on,
PCT Application Serial No. filed on
which claim(s) its earliest priority to Application Serial No. , filed on .
For valuable consideration, the receipt and adequacy of which is hereby acknowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is hereby acknowledged, I hereby:
I. Sell, assign, and transfer unto PIONEER HI-BRED INTERNATIONAL, INC., a corporation organized and existing under the laws of the
State of lows 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
Johnston, 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 rights derived from such aforesaid application(s) for Patent by virtue of the International Convention for the Protection of Industria
Property ("International Convention") and any other treaty or understanding for intellectual property for any and all member
countries 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
arising out of such aforesaid application(s) for Patent ("inventions"), (4) any and all applications for Patent for any such inventions
in any country whatsoever, including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuations-in-
part, international and convention applications based in whole or in part upon such aforesald 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
extensions of any patent based in whole or in part upon such aforesald application(s) for 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 applications under the aforesaid internationa
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 o
transfer 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
said patents may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned without this
assignment;
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 sucl
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 ald said assignee, its successors, assigns, and lega
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 furthe
identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office or the paten
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.
MARK JACOB GADLAGE MULCHAMIN 03/12/2020
MARK JACOB GADLAGE

Name of Inventor 2

PATENT

**REEL: 054592 FRAME: 0529** 

	WORLDWIDE ASSIGNMENT		
, the undersigned <b>DANIEL PRESTON GORMAN</b>	-	· · · · · · · · · · · · · · · · · · ·	<u>lD</u>
X18N897 the subject matter of which is described		rney Docket No: <u>8406-US-NP</u> )	
declaration executed on 3/4	/2020		
United States Of America	ent Application Serial No.	, filed on,	
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Application	n Serial No.	, filed on	
For valuable consideration, the receipt a	and adequacy of which is hereby ac	knowledged, and in fulfillment of my pre-existi	ng
obligation of assignment to assignee, which is he	•		
I. Sell, assign, and transfer unto PIONEER HI-BRE			
State of Iowa in the United States of America a			14,
Johnston, Iowa 50131-1014, herein referred to a	s the assignee, and to assignee's su	ccessors and assigns,	٠.
		s) for Letters Patent ("Patent"), (2) any prior	
rights derived from such aforesaid application(s) Property ("International Convention") and any			
countries of the International Convention or other			
(3) any and all of my inventions, whether joint			
arising out of such aforesaid application(s) for Pa			
in any country whatsoever, including all provision			
part, international and convention applications I	based in whole or in part upon suc	h aforesaid application(s) for Patent and/or su	ıch
Inventions, (5) any and all patents for any such	Inventions in any country whatsoe	ever, including any and all reexams, reissues a	nd
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 understandin			
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			
said patents may be granted, as fully and entire			
assignment;	Ty as are same would have been in	on and enjoyed by the undersigned without the	113
II. Agree, whenever assignee asks, without furth	er compensation but at assignee's	expense for actual and reasonable costs incurre	ed.
		ntatives, any facts known to me respecting su	
Inventions or the rights described above, (B) to	testify in any legal proceeding re-	specting such Inventions or the rights describ	ed
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			
including petitions, specifications, oaths, assign			
requested by said assignee and (D) generally representatives to obtain, maintain, defend and			
with assignee;	emorce patent protection for such	myentions and/or secure the to such invention	1112
III. Represent, warrant and covenant that I have	the full right and lawful authority	to make this assignment, that such assigned rig	zht
is not pre-dated by any grant, license, or other ri			,
IV. Agree that my grants and obligations herein	shall also bind all of my heirs, exer	cutors, administrators, legal representatives, a	nd
assigns; and			
V. Agree that an authorized representative o	f assignee is hereby granted the	power to insert in this assignment any furth	ıer
identification which may be necessary or desiral	ble to comply with the rules of the	U.S. Patent and Trademark Office or the pate	ent
office of any other country for recordation of regarding application number and filing date who	this Assignment, including the p	ower to insert on this assignment informati	on
In Witness Whereof, I have executed this World			ide
Assignment shall be effective as of the earliest pr	iority date for the aforesaid applicat	ion(s) for Letters Patent.	
		1 /	
DANIEL PRESTON GORMAN	6 h. 1/1 11. hr Ma	4 - 3-1Vh 2020	
Name of Inventor 3	- William Co	7/1/400	
LASTITE OF THACHTOL 2	Signature of Inventor	Date /	

		WORLDWIDE ASSIGNMENT	
			of an invention entitled MAIZE HYBRID X18N897
		the application for patent (Attorney Doc	ket No: <u>8406-US-NP</u> )
$\boxtimes$	declaration executed on	03/11/2020	
	United States Of America	Patent Application Serial No.	, filed on,
	PCT Application Serial No.	filed on	
which	claim(s) its earliest priority to Appl	ication Serial No.	, filed on .
	For valuable consideration, the re-	ceipt and adequacy of which is hereby ac	knowledged, and in fulfillment of my pre-existing
obligati	ion of assignment to assignee, which	n is hereby acknowledged, I hereby:	
			tion organized and existing under the laws of the
		<b>-</b> , , ,	islness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,
		d to as the assignee, and to assignee's su	<del>-</del>
	<del>-</del>		(s) for Letters Patent ("Patent"), (2) any priority
Propericountri (3) any arising in any opart, in inventi- extensi the ent Conver- and Tra- transfe and da said pa assigna II. Agra- (A) Inventi- above, should by said including reques repressered with as III. Rep	ey ("International Convention") and es of the International Convention or and all of my inventions, whether out of such aforesaid application(s) country whatsoever, including all proternational and convention applications, (5) any and all patents for any ons of any patent based in whole orier right to (1) file such application of any other treaty or understation or any other treaty or understation or any other treaty or understatemarks of the United States of Anir all of said patents to said assigned mages for any and all infringements tents may be granted, as fully and the entry and the entry of the location of that testimony to be my country of residence prohibit suit assignee, its successors, assigns and petitions, specifications, oaths, ted by said assignee and (D) general signee; present, warrant and covenant that	d any other treaty or understanding for or other treaty or understanding, including joint or sole, disclosed in such aforesal for Patent ("inventions"), (4) any and a rovisional, non-provisional, divisional, relations based in whole or in part upon such such inventions in any country whatsour in part upon such aforesaid application is in its name or in my name, (2) file such anding, (3) have said patents granted in nerica and any counterpart in any other in accordance herewith, and (4) enforces thereof, whether past, present or futurentirely as the same would have been herefully in any legal proceeding relation in the country in which I reside or in the inthe country in which I reside or in the inthe country in which I reside or in the inthe country in which I reside or in the inthe saments, disclaimers, and lawful a trally to do everything possible to aid and enforce patent protection for such I have the full right and lawful authority.	tional Convention for the Protection of Industrial or intellectual property for any and all member ling rights in any and all provisional applications, id applications for Patent, and/or related to or all applications for Patent for any such inventions newal, substitute, continuation, continuations-in-the aforesaid application(s) for Patent and/or such sever, including any and all reexams, reissues and (s) for Letters Patent and/or such inventions; (B) ch applications under the aforesaid international its name or mine, the Commissioner of Patents patent office being hereby authorized to issue or the said patents and to sue for and recover profits re, to the full end of the term or terms for which all and enjoyed by the undersigned without this expense for actual and reasonable costs incurred, entatives, any facts known to me respecting such enearest country in which such testimony is legal ons, papers or instruments necessary or required effect any of the provisions of this instrument, iffidavits in form and substance which may be said assignee, its successors, assigns, and legal inventions and/or secure title to such inventions to make this assignment, that such assigned right party other than the assignee hereto:
•		ther right heretofore given by me to any   nerein shall also bind all of my heirs, exe	party other than the assignee hereto; cutors, administrators, legal representatives, and
assigns	; and		
			power to insert in this assignment any further
	•	• •	e U.S. Patent and Trademark Office or the patent
			power to insert on this assignment information
regard	ng application number and filing da	te when known.	
In Wit	ness Whereof, I have executed this	Worldwide Assignment on the date indi	cated 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.			
		Il h M	/m 2/11/20
-	THOMAS RUSSELL HENRY	1 Howas Russell 1	7 2/11/20
	Name of Inventor 4	Signature of Inventor	Date

	WORLDWIDE ASSIGNMENT		
, the undersigned <u>JILL RENEE LENNON</u> , here	by declare that I am an Inventor of an in	vention entitled MAIZE HYBRID X18N8	<u>}7</u> ∙the
subject matter of which is described in the application of the application executed on 3/2	file of the patent (Attorney Docket No:	8406-US-NP :)	
	Patent Application Serial No.	, filed on	
PCT Application Serial No.	filed on	, med.on	-1
which claim(s) its earliest priority to Applicat		, filed on	
	ot and adequacy of which is hereby ackno		_' viction
obligation of assignment to assignee, which is		wiedert for in initialities of the bie-ex	narniR
. Sell, assign, and transfer unto PIONEER HI-B		organized and existing under the laws	of the
State of lowa in the United States of Americ			
lohnston, Iowa 50131-1014, herein referred to			•
(A) the entire right, title, and interest in rights derived from such aforesaid application Property ("International Convention") and a countries of the International Convention or (3) any and all of my inventions, whether journing out of such aforesaid application(s) for in any country whatsoever, including all provident, international and convention application inventions, (5) any and all patents for any suextensions of any patent based in whole or in the entire right to (1) file such applications in Convention or any other treaty or understandand Trademarks of the United States of Amer transfer all of said patents to said assignee in	n(s) for Patent by virtue of the Internation in other treaty or understanding for in other treaty or understanding, including int or sole, disclosed in such aforesald at Patent ("Inventions"), (4) any and all al islonal, non-provisional, divisional, renewas based in whole or in part upon such affect inventions in any country whatsoever part upon such aforesald application(s) for its name or in my name, (2) file such a ding, (3) have said patents granted in its ica and any counterpart in any other pate accordance herewith, and (4) enforce sa	al Convention for the Protection of Inditellectual property for any and all me rights in any and all provisional application(s) for Patent, and/or related oplications for Patent for any such inversal, substitute, continuation, continuation resald application(s) for Patent and/or, including any and all reexams, reissue or Letters Patent and/or such invention oplications under the aforesald internation of mine, the Commissioner of Print office being hereby authorized to issid patents and to sue for and recover p	ustrial ember ations, to or ntions ons-in-r such es and atents sue or or offts
and damages for any and all Infringements th said patents may be granted, as fully and ent			
assignment;	mely as the same would have been held t	ind enjoyed by the undersigned withou	IL UIIS
II. Agree, whenever assignee asks, without fur (A) to communicate to said assignee, its inventions or the rights described above, (B) above, the location of that testimony to be in should my country of residence prohibit such by said assignee, its successors, assigns and including petitions, specifications, oaths, assigneested by said assignee and (D) general representatives to obtain, maintain, defend as with assignee;	successors, assigns, and legal representat to testify in any legal proceeding respect the country in which I reside or in the ne- testimony, (C) to execute all applications, legal representatives, to carry into effe signments, disclaimers, and lawful affida by to do everything possible to aid said	ives, any facts known to me respecting such inventions or the rights described arest country in which such testimony is papers or instruments necessary or rect any of the provisions of this instructs in form and substance which massignee, its successors, assigns, and	s such cribed s legal quired ment, ay be legal
III. Represent, warrant and covenant that I had is not pre-dated by any grant, ilicense; or other IV. Agree that my grants and obligations here assigns; and	r right heretofore given by me to any part	other than the assignee hereto;	•
<ul> <li>V. Agree that an authorized representative identification which may be necessary or design office of any other country for recordation regarding application number and filing date were</li> </ul>	rable to comply with the rules of the U.S of this Assignment, including the powe when known.	. Patent and Trademark Office or the per to insert on this assignment inform	atent nation
In Witness Whereof, I have executed this Wo	orldwide Assignment on the date indicate	d by my hand and agree that this Worl	dwide
Assignment shall be effective as of the earliest	priority date for the aforesaid application(	s) for Letters Patent.	
	•		
JILL RENEE LENNON	til heree Lemin	3/4/2020	*
Name of Inventor 5	Signature of Inventor	Date	•

**PATENT** 

REEL: 054592 FRAME: 0532

	<u>w</u> (	ORLDWIDE ASSIGNMEN	П	
, the undersigned <u>KATHERII</u> K18N897 the subject matter of	f which is described in th	e application for patent (	n inventor of an ii Attorney Docket No	nvention entitled <u>MAIZE HYBRID</u> : <u>8406-US-NP</u> )
declaration execute		<i>v</i>		
United States Of An	nerica Patent A	pplication Serial No.	, file	d on,
PCT Application Seri		filed on		
high plaim/a) its angliast asi	ority to Application Seri	al No.		filed on
For valuable consider	ation, the receipt and a	dequacy of which is hereb	y acknowledged, an	id in fulfillment of my pre-existing
obligation of accignment to as	signee which is hereby:	acknowledged, I hereby:		
I Call accion and transfer uni	M PIONEER HI-BRED INT	FRNATIONAL. INC., a cori	poration organized	and existing under the laws of the
State of Inwa in the United S	itates of America and hi	aving its principal place o	t business at /100	NW 62" Avenue, P.O. Box 1014,
Johnston, Jowa 50131-1014 h	perein referred to as the	assignee, and to assignee	's successors and as	signs,
(A) the entire right, title,	and interest in and to:	(1) the aforesaid applica	non(s) for Letters r	atent ("Patent"), (2) any priority
rights derived from such afore	asaid application(s) for h	ratent by virtue of the filt	e for intellectual p	on for the Protection of Industrial property for any and all member
Property ("International Con	vention ) and any other to	eaty or understanding, it	icluding rights in an	y and all provisional applications,
countries of the international	ions whether joint or s	ole, disclosed in such afo	resaid application(s	for Patent, and/or related to or
pricing out of such aforesaid :	application(s) for Patent	("Inventions"), (4) any	and all applications	tor bateut for any such inventions
in any country whatsnever in	ncluding all provisional.	non-provisional, divisiona	l, renewal, substitu	te, continuation, continuations-in-
nart international and conve	ntion applications bases	in whole or in part upor	n such aforesaid app	olication(s) for Patent and/or such
Inventions (5) any and all o	atents for any such inve	intions in any country wh	atsoever, including	any and all reexams, reissues allo
extensions of any patent base	ed in whole or in part u	oon such aforesaid applica	ation(s) for Letters I	Patent and/or such Inventions; (B)
the entire right to (1) file su	ch applications in its na	me or in my name, (2) fil	e such applications	under the aforesaid International
Convention or any other trea	aty or understanding, (3	) nave said patents grant	ther natent office h	nine, the Commissioner of Patents
and Trademarks of the Unite	d States of America and	any counterpart in any o	oforce said patents	eing hereby authorized to issue or and to sue for and recover profits
transfer all of salo patents to	infringements thereof	whether past, present or	future, to the full e	and of the term or terms for which
and damages for any and an	as fully and entirely as	the same would have be	en held and enjoye	ed by the undersigned without this
accignment.				
II Agree whenever assigned	asks, without further co	ompensation but at assign	ee's expense for ac	tual and reasonable costs incurred,
(A) to communicate to s	said assignee, its success	sors, assigns, and legal re	presentatives, any 1	facts known to me respecting such
Inventions or the rights design	cribed above. (B) to tes	tify in any legal proceedi	ng respecting such	Inventions or the rights described
above, the location of that to	estimony to be in the co	untry in which I reside or	in the nearest coun	try in which such testimony is legal
should my country of resider	nce prohibit such testim	ony, (C) to execute all app	incations, papers or	instruments necessary or required
by said assignee, its succes	sors, assigns and legal	nepresentatives, to carry	aful affidavits in fo	the provisions of this instrument, irm and substance which may be
including petitions, specific	and (D) generally to	ins, discialmers, and lav	aid said assignee.	its successors, assigns, and legal
requested by said assignee	and (b) generally to t	orce patent protection for	such Inventions an	d/or secure title to such Inventions
with assignee;	arritarily deterior and em			
III. Represent, warrant and	covenant that I have the	full right and lawful auth	ority to make this a	ssignment, that such assigned right
is not pre-dated by any gran	t. license, or other right	heretofore given by me to	any party other th	an the assignee hereto;
IV. Agree that my grants ar	id obligations herein sha	all also bind all of my heir	s, executors, admin	istrators, legal representatives, and
assigns: and				
V. Agree that an authoriz	ed representative of a	ssignee is hereby grante	the power to ins	ert in this assignment any further
identification which may be	necessary or desirable	to comply with the rules	of the U.S. Patent a	and Trademark Office or the patent
			the power to mse	ert on this assignment information
regarding application numb	er and filing date when i	(nown.		hand and auroa that this Worldwide
In Witness Whereof, I have	executed this Worldwi	de Assignment on the da	e indicated by my	hand and agree that this Worldwide
Assignment shall be effective	e as of the earliest prior	ty date for the aloresaid a	pprication(s) for Let	icis calciii.
		Nous Ju	ر ما این ا	3/14/1020
KATHERINE LISK		your or "	o Judh	3/18/1020 Date
Name of Inventor	6	Signature of Inventor	v	Date

		WORLDWIDE ASSIGNMENT	
			of an invention entitled MAIZE HYBRID X18N897
		the application for patent (Attorney Dock	et No: <u>8406-US-NP</u> )
$\boxtimes$	declaration executed on	3/9/2020	
	United States Of America	Patent Application Serial No.	, filed on,
	PCT Application Serial No.	filed on	
which	claim(s) its earliest priority to Appl	ication Serial No.	filed on
			knowledged, and in fulfillment of my pre-existing
_		h is hereby acknowledged, I hereby:	
	<del>-</del> -	·	ion organized and existing under the laws of the
			siness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,
		d to as the assignee, and to assignee's suc	cessors and assigns, s) for Letters Patent ("Patent"), (2) any priority
			ional Convention for the Protection of Industrial
_	The state of the s	· · · · · · · · · · · · · · · · · · ·	intellectual property for any and all member
•	• -	•	ing rights in any and all provisional applications,
		•	d application(s) for Patent, and/or related to or
	•	·	Il applications for Patent for any such Inventions
n any i	country whatsoever, including all p	rovisional, non-provisional, divisional, ren	ewal, substitute, continuation, continuations-in-
			aforesaid application(s) for Patent and/or such
			ver, including any and all reexams, reissues and
			s) for Letters Patent and/or such Inventions; (B)
			h applications under the aforesaid International
			its name or mine, the Commissioner of Patents patent office being hereby authorized to issue or
			e said patents and to sue for and recover profits
			e, to the full end of the term or terms for which
			eld and enjoyed by the undersigned without this
assignn			,
II. Ägre	ee, whenever assignee asks, withou	t further compensation but at assignee's $\epsilon$	expense for actual and reasonable costs incurred,
(A)	to communicate to said assignee,	its successors, assigns, and legal representations	ntatives, any facts known to me respecting such
			specting such Inventions or the rights described
			nearest country in which such testimony is legal
			ons, papers or instruments necessary or required
•	<u> </u>		effect any of the provisions of this instrument,
			ffidavits in form and substance which may be said assignee, its successors, assigns, and legal
			Inventions and/or secure title to such inventions
•	signee;	a and amond potent protestion for business	
	• •	I have the full right and lawful authority t	to make this assignment, that such assigned right
		ther right heretofore given by me to any p	
IV. Ag	ree that my grants and obligations	herein shall also bind all of my heirs, exe	cutors, administrators, legal representatives, and
assigns	; and		
_	•		power to insert in this assignment any further
			U.S. Patent and Trademark Office or the patent
			ower to insert on this assignment information
_	ing application number and filing da		
		<del>-</del>	cated by my hand and agree that this Worldwide
Assign	ment shall be effective as of the ear	liest priority date for the aforesaid applicat	ion(s) for Letters Patent.
		/ -	

NATHAN BROOK O'BERRY

Name of Inventor 7

### WORLDWIDE ASSIGNMENT

WORLDWIDE ASSIGNMENT
1, the undersigned JASON MICHAEL PROTHRO, hereby declare that I am an inventor of an invention entitled MAIZE HYBRID X18N897
the subject matter of which is described in the application for patent (Attorney Docket No: 8406-US-NP )
declaration executed on 3/4/2020
United States Of America Patent Application Serial No, filed on,
PCT Application Serial No filed on
which claim(s) its earliest priority to Application Serial No, filed on
For valuable consideration, the receipt and adequacy of which is hereby acknowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is hereby acknowledged, I hereby:
I. Sell, assign, and transfer unto PIONEER HI-BRED INTERNATIONAL, INC., a corporation organized and existing under the laws of the
State of lowa in the United States of America and having its principal place of business at 7100 NW 62 <sup>rd</sup> Avenue, P.O. Box 1014 Johnston, 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
rights derived from such aforesaid application(s) for Patent by virtue of the International Convention for the Protection of Industrial
Property ("International Convention") and any other treaty or understanding for intellectual property for any and all member
countries 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
arising out of such aforesaid application(s) for Patent ("inventions"), (4) any and all applications for Patent for any such inventions
in any country whatsoever, including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuations-in-
part, 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
extensions of any patent based in whole or in part upon such aforesald application(s) for 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 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
transfer 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
said patents may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned without this
assignment;
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;
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.
7/12 7/12/2-
JASON MICHAEL PROTHRO 3/4/2020
Name of Inventor 8 Signature of Inventor Date

PATENT

**REEL: 054592 FRAME: 0535** 

	WORLDWIDE ASSIGNMENT	
		f an invention entitled MAIZE HYBRID X18N897
the subject matter of which is described in the		t No: <u>8406-US-NP</u> )
$\boxtimes$ declaration executed on $3/2$	<del></del>	
United States Of America	Patent Application Serial No.	, filed on,
PCT Application Serial No.	filed on	
which claim(s) its earliest priority to Applica		, filed on
-	•	nowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is		
		on organized and existing under the laws of the
		ness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred t		
rights derived from such aforesaid application Property ("International Convention") and a countries of the International Convention or (3) any and all of my inventions, whether is arising out of such aforesaid application(s) for in any country whatsoever, including all provpart, international and convention application inventions, (5) any and all patents for any sextensions of any patent based in whole or in the entire right to (1) file such applications in Convention or any other treaty or understant and Trademarks of the United States of Americansfer all of said patents to said assignee in and damages for any and all infringements the said patents may be granted, as fully and entassignment;	n(s) for Patent by virtue of the Internation other treaty or understanding for other treaty or understanding, including into or sole, disclosed in such aforesaid in Patent ("Inventions"), (4) any and all issional, non-provisional, divisional, rene insignal, non-provisional, divisional, rene insignal, non-provisional, divisional, rene insignal, non-provisional, divisional, rene in based in whole or in part upon such uch Inventions in any country whatsoever part upon such aforesaid application(s in its name or in my name, (2) file such inding, (3) have said patents granted in it inca and any counterpart in any other part in accordance herewith, and (4) enforce thereof, whether past, present or future tirely as the same would have been hel	for Letters Patent ("Patent"), (2) any priority conal Convention for the Protection of Industrial intellectual property for any and all member grights in any and all provisional applications, application(s) for Patent, and/or related to or applications for Patent for any such Inventions wal, substitute, continuation, continuations-inaforesaid application(s) for Patent and/or such er, including any and all reexams, reissues and for Letters Patent and/or such Inventions; (B) applications under the aforesaid International is name or mine, the Commissioner of Patents atent office being hereby authorized to issue or said patents and to sue for and recover profits, to the full end of the term or terms for which d and enjoyed by the undersigned without this
(A) to communicate to said assignee, its Inventions or the rights described above, (B above, the location of that testimony to be in should my country of residence prohibit such by said assignee, its successors, assigns and including petitions, specifications, oaths, as requested by said assignee and (D) general representatives to obtain, maintain, defend a with assignee;  III. Represent, warrant and covenant that I he	successors, assigns, and legal represent to testify in any legal proceeding responsible to testimony, (C) to execute all application dilegal representatives, to carry into existing ments, disclaimers, and lawful affelly to do everything possible to aid saind enforce patent protection for such leave the full right and lawful authority to	spense for actual and reasonable costs incurred, tatives, any facts known to me respecting such pecting such inventions or the rights described nearest country in which such testimony is legal as, papers or instruments necessary or required ffect any of the provisions of this instrument, idavits in form and substance which may be aid assignee, its successors, assigns, and legal inventions and/or secure title to such inventions make this assignment, that such assigned right
assigns; and V. Agree that an authorized representative identification which may be necessary or desoffice of any other country for recordation regarding application number and filing date	rein shall also bind all of my heirs, execute of assignee is hereby granted the posirable to comply with the rules of the land of this Assignment, including the powhen known.  Orldwide Assignment on the date indicates	ower to insert in this assignment any further J.S. Patent and Trademark Office or the patent wer to insert on this assignment information ated by my hand and agree that this Worldwide
	- breated seem for me atoresain abbitcant	with the promote a drotte
	an ni	
STEVEN TYLER THORNTON	May 18 May	3/23/20
Name of Inventor 9	Signature of Inventor	Date

PATENT **REEL: 054592 FRAME: 0536** 

**RECORDED: 12/09/2020**