## 506318910 10/23/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6365661

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
TERRY R COLBERT	03/06/2020
MARK JACOB GADLAGE	03/03/2020
DANIEL PRESTON GORMAN	03/04/2020
THOMAS RUSSELL HENRY	05/26/2020
JILL RENEE LENNON	03/04/2020
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:	17076861

### **CORRESPONDENCE DATA**

Phone:

**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.

using a lax number, if provided, if that is unsuccessful, it will be set

Email: IPSUPPORT@CORTEVA.COM

Correspondent Name: PIONEER HI-BRED INTERNATIONAL, INC.

515-535-5859

Address Line 1: 7250 NW 62ND AVENUE

Address Line 2: PO BOX 552

Address Line 4: JOHNSTON, IOWA 50131-0552

ATTORNEY DOCKET NUMBER: 8305-US-NP
NAME OF SUBMITTER: LYNDA FITZPATRICK

SIGNATURE:	/lmfitzpatrick/
DATE SIGNED:	10/23/2020
Total Attachments: 8	
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	AAAUTOAAIDE WOOIGIAIAIEIA I		
I, the undersigned <u>TERRY R COLBERT</u> , herel	by declare that I am an inventor of ar	n invention entitled MAIZE HYBRID X18P228 the	2
subject matter of which is described in the ap		No: <u>8305-US-NP</u> )	
declaration executed on 3/6	i -		
_	Patent Application Serial No.	, filed on,	
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Applica		, filed on	
		knowledged, and in fulfillment of my pre-existing	3
obligation of assignment to assignee, which is			
		tion organized and existing under the laws of the	
		siness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,	,
Johnston, Iowa 50131-1014, herein referred t			
(A) the entire right, title, and interest in	and to: (1) the aforesaid application(	s) for Letters Patent ("Patent"), (2) any priority	/
Property ("International Convention") and a	n(s) for Patent by virtue of the internal	tional Convention for the Protection of Industria	ı
countries of the international Convention or	other treaty or understanding include	r intellectual property for any and all member ing rights in any and all provisional applications	Г
(3) any and all of my inventions whether is	oint or sole disclosed in such aforesal	ing rights in any and an provisional applications, id application(s) for Patent, and/or related to or	,
arising out of such aforesaid application(s) for	r Patent ("Inventions") (4) any and a	all application(s) for Patent, and/or related to or	
		newal, substitute, continuation, continuations-in-	
		h aforesaid application(s) for Patent and/or such	
		ever, including any and all reexams, reissues and	
extensions of any patent based in whole or in	n part upon such aforesald application	(s) for Letters Patent and/or such Inventions; (B	)
the entire right to (1) file such applications i	n its name or in my name, (2) file suc	ch applications under the aforesaid International	i
		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	
	tirely as the same would have been he	eld and enjoyed by the undersigned without this	ŝ
assignment;			
		expense for actual and reasonable costs incurred,	
		ntatives, any facts known to me respecting such specting such inventions or the rights described	
		e nearest country in which such testimony is legal	
		ons, papers or instruments necessary or required	
		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	
with assignee;			
		to make this assignment, that such assigned right	t
is not pre-dated by any grant, license, or othe			
	ein shall also bind all of my heirs, exec	cutors, administrators, legal representatives, and	į
assigns; and	C		
		power to insert in this assignment any further	
		U.S. Patent and Trademark Office or the patent ower to insert on this assignment information	
regarding application number and filing date		ower to insert on this assignment information	
		cated by my hand and agree that this Worldwide	
Assignment shall be effective as of the earlies			ï
	c priority date for the affresaid applica	ition(s) for Letters Faterit.	
	00 000	/ / / /	
TERRY R COLBERT	lerryk. Coll	ext 3/6/2020	
Name of Inventor 1	Signature of inventor	Date	

	WORLDWIDE ASSIGNMENT	
, the undersigned MARK JACOB GADLAGE, hereb		
subject matter of which is described in the applica		o: <u>8305-US-NP</u> )
declaration executed on MARCH	13,2000	
United States Of America Pate	ent Application Serial No.	, filed on,
PCT Application Serial No.	filed on	
which claim(s) its earliest priority to Application	Serial No.	, filed on
		nowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is her		
I. Sell, assign, and transfer unto PIONEER HI-BRED		
State of Iowa In the United States of America ar		
Johnston, Iowa 50131-1014, herein referred to as		
		) for Letters Patent ("Patent"), (2) any priority
rights derived from such aforesald application(s)		
Property ("International Convention") and any countries of the International Convention or oth	or treaty or understanding includi	intellectual property for any and all member
(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 b		
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 its	s name or in my name, (2) file such	n applications under the aforesaid International
Convention or any other treaty or understanding	- · · ·	
and Trademarks of the United States of America		
transfer all of said patents to said assignee in acc		
and damages for any and all infringements there	• • •	
said patents may be granted, as fully and entire	y as the same would have been he	ld and enjoyed by the undersigned without this
assignment;		
II. Agree, whenever assignee asks, without furthe	•	
Inventions or the rights described above, (B) to		statives, any facts known to me respecting such
above, the location of that testimony to be in the		
should my country of residence prohibit such tes		
by sald assignee, its successors, assigns and leg		
including petitions, specifications, oaths, assign		
requested by said assignee and (D) generally t	· ·	•
representatives to obtain, maintain, defend and		
with assignee;		
III. Represent, warrant and covenant that I have	the full right and lawful authority to	o make this assignment, that such assigned right
is not pre-dated by any grant, license, or other rig	- • • • • • • • • • • • • • • • • • • •	
IV. Agree that my grants and obligations herein	shall also bind all of my heirs, exec	utors, administrators, legal representatives, and
assigns; and		
V. Agree that an authorized representative of	- · · · · · · · · · · · · · · · · · · ·	
identification which may be necessary or desirab	, ,	•
office of any other country for recordation of regarding application number and filing date whe		ower to insert on this assignment information
		and the continued and assess that the 197 11 11
In Witness Whereof, I have executed this World		
Assignment shall be effective as of the earliest pri	ority date for the aforesaid applicati	on(s) for Letters Patent.
	MI All	
MARK IACOR CARLACE	[VIII] LI HAILE	MARCH 3, 2020
MARK JACOB GADLAGE	- I Think Differen	THANKE YOU
Name of Inventor 2	Signature of Iffentor	Date

W	ORLDWIDE ASSIGNMENT	
I, the undersigned DANIEL PRESTON GORMAN, he	reby declare that I am an inventor of	an invention entitled MAIZE HYBRID
X18P228 the subject matter of which is described in the	ne application for patent (Attorney Docke	et No: <u>8305-US-NP</u> )
declaration executed on 3/9/202		
	Application Serial No.	_, filed on,
PCT Application Serial No.	filed on	
which claim(s) Its earliest priority to Application Seri	al No.	, filed on
For valuable consideration, the receipt and a	dequacy of which is hereby acknowledge	d, 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 INT	ERNATIONAL, INC., a corporation organi	zed and existing under the laws of the
State of lowa in the United States of America and had had been and had been solded in the lower of the lower	aveignee and to assignee's successors at 7	100 NW 62 <sup>th</sup> Avenue, P.O. Box 1014,
(A) the entire right, title, and interest in and to:	(1) the aforesaid application(s) for Lette	10 assigns, pre Patent ("Patent") - (2) any priority
rights derived from such aforesaid application(s) for P	atent by virtue of the International Con-	ers raterit ( raterit ), (2) any priority  vention for the Protection of Industrial
Property ("International Convention") and any othe	r treaty or understanding for intellectu	al property for any and all member
countries of the International Convention or other tra	eaty or understanding, including rights i	n any and all provisional applications.
(3) any and all of my inventions, whether joint or so	ole, disclosed in such aforesaid applicati	on(s) for Patent, and/or related to or
arising out of such aforesaid application(s) for Patent	("Inventions"), (4) any and all applicati	ons for Patent for any such inventions
in any country whatsoever, including all provisional, n	ion-provisional, divisional, renewal, subs	stitute, 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 inver	ntions in any country whatsoever, includ	ling any and all reexams, reissues and
extensions of any patent based in whole or in part up the entire right to (1) file such applications in its nan	on such aforesaid application(s) for Lette	ers Patent and/or such Inventions; (B)
Convention or any other treaty or understanding, (3)	he or in my name, (2) me such application have said natents granted in its name (	ons under the atoresaid international
and Trademarks of the United States of America and	any counterpart in any other patent off	re heing hereby authorized to issue or
transfer all of said patents to said assignee in accorda	ince herewith, and (4) enforce said pate	ents and to sue for and recover profits
and damages for any and all infringements thereof, w	hether past, present or future, to the fi	all end of the term or terms for which
said patents may be granted, as fully and entirely as i	the same would have been held and enj	oyed by the undersigned without this
assignment;		_
<ol> <li>Agree, whenever assignee asks, without further cor</li> </ol>	mpensation but at assignee's expense for	actual and reasonable costs incurred,
(A) to communicate to said assignee, its successor	ors, assigns, and legal representatives, a	ny facts known to me respecting such
inventions or the rights described above, (B) to testi	fy in any legal proceeding respecting su	ch Inventions or the rights described
above, the location of that testimony to be in the cour	ntry in which I reside or in the nearest co	ountry in which such testimony is legal
should my country of residence prohibit such testimon by sald assignee, its successors, assigns and legal re	ry, (C) to execute all applications, papers	of the providing of the instrument
including petitions, specifications, oaths, assignment	ts 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 assign	se its successors assigns and legal
representatives to obtain, maintain, defend and enfor	ce patent protection for such Inventions	and/or secure title to such Inventions
with assignee;		and a second and to see mitches
II. Represent, warrant and covenant that I have the f	ull right and lawful authority to make thi	s assignment, that such assigned right
s not pre-dated by any grant, license, or other right he	eretofore given by me to any party other	than the assignee hereto;
V. Agree that my grants and obligations herein shall	also bind all of my heirs, executors, adm	ninistrators, legal representatives, and
assigns; and		
V. Agree that an authorized representative of assignment floating unbidged and the second and the second and the second areas and the second and the second areas are second as a second and the second areas are second as a second areas are second areas areas are second areas areas are second areas are second areas are second areas are second ar	gnee is hereby granted the power to i	insert in this assignment any further
dentification which may be necessary or desirable to office of any other country for recordation of this	Assignment including the power to be	it and Trademark Office or the patent
regarding application number and filing date when kno	Assignment, including the power to ir	isert on this assignment information
In Witness Whereof, I have executed this Worldwide		y hand and agree that this Worldwide
Assignment shall be effective as of the earliest priority	date for the aforesaid annication(s) for I	atters Datant
	and in aic atoresaid applications) for L	cues faich.
	11/1/11/11	-// .
DANIEL PRESTON GORMAN	Value / Septe Man	3/1/24 21
	signature of Inventor	Dote
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PATENT

**REEL: 054150 FRAME: 0730** 

I, the undersigned THOMAS RUSSELL HENRY, here	by doctors that I am an inve		ion entitled MAITE HVRRID V190229
the subject matter of which is described in the app	-		
•	/2020	DOCKET 110. <u>030.</u>	<u>-03-141</u>
	nt Application Serial No.		filed on,
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Application 5	Serial No.		, filed on .
For valuable consideration, the receipt an		by acknowledged	and in fulfillment of my pre-existing
obligation of assignment to assignee, which is here	• •		,. 5
I. Sell, assign, and transfer unto PIONEER HI-BRED		poration organize	ed and existing under the laws of the
State of Iowa in the United States of America and			
Johnston, Iowa 50131-1014, herein referred to as t	he assignee, and to assignee	e's successors and	assigns,
(A) the entire right, title, and interest in and	to: (1) the aforesaid applica	ation(s) for Letter	s Patent ("Patent"), (2) any priority
rights derived from such aforesaid application(s) for	or Patent by virtue of the Int	ternational Conve	ntion for the Protection of Industrial
Property ("International Convention") and any o	ther treaty or understandir	ng for intellectua	I property for any and all member
countries of the International Convention or othe	r treaty or understanding, i	ncluding rights in	any and all provisional applications,
(3) any and all of my inventions, whether joint of	r sole, disclosed in such afo	resaid application	n(s) for Patent, and/or related to or
arising out of such aforesaid application(s) for Pate	ent ("Inventions"), (4) any	and all application	ns for Patent for any such Inventions
in any country whatsoever, including all provisions	al, non-provisional, divisiona	il, renewal, substi	tute, continuation, continuations-in-
part, international and convention applications ba	sed in whole or in part upor	n such aforesaid a	application(s) for Patent and/or such
Inventions, (5) any and all patents for any such in	iventions in any country wh	atsoever, includir	ng any and all reexams, reissues and
extensions of any patent based in whole or in part	upon such aforesaid applica	ation(s) for Letter	s Patent and/or such Inventions; (B)
the entire right to (1) file such applications in its	name or in my name, (2) fil	e such application	ns under the aforesaid International
Convention or any other treaty or understanding,	(3) have said patents grant	ed in its name or	mine, the Commissioner of Patents
and Trademarks of the United States of America a	nd any counterpart in any o	ther patent office	being hereby authorized to issue or
transfer all of said patents to said assignee in acco	rdance herewith, and (4) e	nforce said paten	ts and to sue for and recover profits
and damages for any and all infringements thereo	f, 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 be	en held and enjo	yed by the undersigned without this
assignment;			
II. Agree, whenever assignee asks, without further	compensation but at assign	ee's expense for a	ectual and reasonable costs incurred,
(A) to communicate to said assignee, its succe	essors, assigns, and legal rep	oresentatives, any	facts known to me respecting such
Inventions or the rights described above, (B) to to	estify in any legal proceedir	ng respecting suc	h Inventions or the rights described
above, the location of that testimony to be in the	country in which I reside or i	n the nearest cou	intry in which such testimony is legal
should my country of residence prohibit such testi	mony, (C) to execute all app	lications, papers of	or instruments necessary or required
by said assignee, its successors, assigns and lega	I representatives, to carry	into effect any o	f the provisions of this instrument,
including petitions, specifications, oaths, assignn	nents, disclaimers, and law	ful affidavits in 1	form and substance which may be
requested by said assignee and (D) generally to	do everything possible to	aid said assigne	e, its successors, assigns, and legal
representatives to obtain, maintain, defend and er			
with assignee;			·
III. Represent, warrant and covenant that I have the	ne full right and lawful autho	ority to make this	assignment, that such assigned right
is not pre-dated by any grant, license, or other righ	t heretofore given by me to	any party other tl	nan the assignee hereto;
IV. Agree that my grants and obligations herein sl	nall also bind all of my heirs	, executors, admir	nistrators, legal representatives, and
assigns; and			
V. Agree that an authorized representative of a	assignee is hereby granted	the power to in	sert in this assignment any further
identification which may be necessary or desirable	e to comply with the rules of	f the U.S. Patent	and Trademark Office or the patent
office of any other country for recordation of t	his Assignment, including t	he power to ins	ert on this assignment information
regarding application number and filing date when	known.		
In Witness Whereof, I have executed this Worldw	ide Assignment on the date	indicated by my	hand and agree that this Worldwide
Assignment shall be effective as of the earliest prior	<del>-</del>		_
	d 0	Λ	-19/1ax
THOMAS RUSSELL HENRY	Thona Prevell	149	<u> 2   44   20</u>
Name of Inventor 4	Signature of Inventor		Date

I, the undersigned JILL RENEE LENNON, hereb	y declare that I am an inventor of a	n invention entitled MAIZE HYBRID X18	P228 the
subject matter of which is described in the appl	cation for patent (Attorney Docket i	lo: 8305-US-NP )	
declaration executed on	2020		
☐ United States Of America Pa	atent Application Serial No.	, filed on	
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Application	on Serial No.	, filed on	•
For valuable consideration, the receipt	and adequacy of which is hereby ac	knowledged, and in fulfillment of my pro	e-existing
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I. Sell, assign, and transfer unto PIONEER HI-BR			
State of lows in the United States of America			ox 1014,
Johnston, lowa 50131-1014, herein referred to (A) the entire right, title, and interest in a			mulamita :
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	it or sole, disclosed in such aforesal	d application(s) for Patent, and/or rela	ted to or
arising out of such aforesaid applicațion(s) for P			
in any country whatsoever, including all provisi			
part, international and convention applications			
Inventions, (5) any and all patents for any suc			
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			
sald patents may be granted, as fully and entire	ely as the same would have been he	eld and:enjoyed by the undersigned wit	nout this
assignment;			
II. Agree, whenever assignee asks, without furt	ner compensation but at assignee's e	expense for actual and reasonable costs	incurred,
(A) to communicate to said assignee, its su 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 l			
including petitions, specifications, oaths, assig	gnments; disclaimers, and lawful a	ffidavits in form and substance which	may be
requested by said assignee and (D) generally			
representatives to obtain, maintain, defend and	d enforce patent protection for such	inventions and/or secure title to such in	iventions
with assignee;	on which the standards as to confidence the control of the control	r de la companya della companya della companya de la companya della companya dell	
III. Represent, warrant and covenant that I hav is not pre-dated by any grant, license, or other r	e the full right and lawful authority i	to make this assignment, that such assignment	ned right
IV. Agree that my grants and obligations herei	n shall also hind all of my heirs, exe	uitors, administrators, legal representat	hae aau
assigns; and		· · · · · · · · · · · · · · · · · · ·	inco, and
V. Agree that an authorized representative	of assignee is hereby granted the	power to insert in this assignment an	y further
Identification which may be necessary or desire	able to comply with the rules of the	U.S. Patent and Trademark Office or th	ne patent
office of any other country for recordation of		ower to insert on this assignment inf	ormation
regarding application number and filing date when			
In Witness Whereof, I have executed this Wor	ldwide Assignment on the date indi-	cated by my hand and agree that this W	'orldwide
Assignment shall be effective as of the earliest p	riority date for the aforesaid applicat	ion(s) for Letters Patent.	
JILL RENEE LENNON	hel lener Lene	3/42020	
Name of Inventor 5	Signature of Inventor	Date	٠

		WORLDWIDE ASSIGNMENT	
			of an invention entitled MAIZE HYBRID X18P228
		n the application for patent (Attorney Docke	et No: <u>8305-US-NP</u> )
$\boxtimes$	declaration executed on	3/9/2020	C*1 1
	United States Of America	Patent Application Serial No.	, filed on,
Ц.,	PCT Application Serial No.	filed on	
which	n claim(s) its earliest priority to Ap		, filed on
ablicat		receipt and adequacy of which is hereby ack ich is hereby acknowledged, I hereby:	nowledged, and in fulfillment of my pre-existing
			on organized and existing under the laws of the
			iness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,
		red to as the assignee, and to assignee's suc	
			) for Letters Patent ("Patent"), (2) any priority
rights of Proper countr (3) an arising in any part, ir invention extens the en Convertand Tr transfer and data said parts assignificant of the convertant of	derived from such aforesaid applicity ("International Convention") at less of the International Convention and all of my inventions, wheth out of such aforesaid application (country whatsoever, including all international and convention applications, (5) any and all patents for a lions of any patent based in whole tire right to (1) file such application or any other treaty or undeademarks of the United States of ar all of said patents to said assign amages for any and all infringements may be granted, as fully any ment;	ration(s) for Patent by virtue of the International any other treaty or understanding for on or other treaty or understanding, including joint or sole, disclosed in such aforesaid (s) for Patent ("Inventions"), (4) any and all provisional, non-provisional, divisional, renecations based in whole or in part upon such any such Inventions in any country whatsoes or in part upon such aforesaid application(sons in its name or in my name, (2) file such restanding, (3) have said patents granted in America and any counterpart in any other pate in accordance herewith, and (4) enforce ints thereof, whether past, present or future in dentirely as the same would have been he	intellectual property for any and all member in grights in any and all provisional applications, if application(s) for Patent, and/or related to or applications for Patent for any such Inventions ewal, substitute, continuation, continuations-in-aforesaid application(s) for Patent and/or such ver, including any and all reexams, reissues and is for Letters Patent and/or such Inventions; (B) in applications under the aforesaid International its name or mine, the Commissioner of Patents patent office being hereby authorized to issue or a said patents and to sue for and recover profits et and enjoyed by the undersigned without this
(A Invention above, should by said including repression with a III. Reduced is not IV. As assign V. As identification office regard	to communicate to said assignedions or the rights described above, the location of that testimony to it my country of residence prohibited assignee, its successors, assignating petitions, specifications, oath sted by said assignee and (D) generatives to obtain, maintain, defeatives to obtain, maintain, defeatives to warrant and covenant the pre-dated by any grant, license, or gree that my grants and obligations; and gree that an authorized representation which may be necessary of any other country for recording application number and filing	e, its successors, assigns, and legal represere, (8) to testify in any legal proceeding reside in the country in which I reside or in the esuch testimony, (C) to execute all applications and legal representatives, to carry into east, assignments, disclaimers, and lawful aftererally to do everything possible to aid seend and enforce patent protection for such at I have the full right and lawful authority to other right heretofore given by me to any passible herein shall also bind all of my heirs, executative of assignee is hereby granted the part desirable to comply with the rules of the dation of this Assignment, including the product of the second content of the second con	cutors, administrators, legal representatives, 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
			cated by my hand and agree that this Worldwide
Assig	nment shall be effective as of the e	arliest priority date for the aforesaid applicati	ion(s) for Letters Patent.
		111 2 -	2 11
	NATHAN BROOK O'BERRY	Notes Sand 1	2/9/2020
	Name of Inventor 6	Signature of Inventor	Date
	TANKED OF THE CHINGE O	CIPIEMETO OT INTACTOR	//

i, the undersigned JASON MICHAEL PROTHRO	, hereby declare that I am an invento	r of an invention entitled MAIZE HYBRIC	X18P228
the subject matter of which is described in the		ket No: <u>8305-US-NP</u> )	
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United States Of America . 'P	Patent Application Serial No.	, filed on	
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Applicat	ion Serial No.	, filed on	
For valuable consideration, the receip	t and adequacy of which is hereby a	, πied on cknowledged, and in fulfillment of my pr	e-existing
obligation of assignment to assignee, which is I	hereby acknowledged, I hereby:	•	
I. Sell, assign, and transfer unto PIONEER HI-BI			
State of Iowa in the United States of America			Box 1014,
Johnston, Iowa 50131-1014, herein referred to			
(A) the entire right, title, and interest in			
rights derived from such aforesaid application			
Property ("International Convention") and ar			
countries of the International Convention or o			
(3) any and all of my inventions, whether joi	nt or sole, disclosed in such aforesa	ld application(s) for Patent, and/or rela	ited to or
arising out of such aforesaid application(s) for			
in any country whatsoever, including all provision			
part, international and convention application			
Inventions, (5) any and all patents for any sur			
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 and Trademarks of the United States of American			
transfer all of said patents to said assignee in			
and damages for any and all infringements the			
said patents may be granted, as fully and enti			
assignment;	rely as the sume would have been h	eld and enjoyed by the undersigned wh	MIQUE HIIS
II. Agree, whenever assignee asks, without fur	ther compensation but at assignee's	expense for actual and reasonable costs	incurred
(A) to communicate to said assignee, its s			
inventions or the rights described above, (B)			
above, the location of that testimony to be in			
should my country of residence prohibit such t			
by sald assignee, its successors, assigns and			
including petitions, specifications, oaths, assi	ignments, disclaimers, and lawful a	iffidavits in form and substance which	n may be
requested by said assignee and (D) generally			
representatives to obtain, maintain, defend an	d enforce patent protection for such	Inventions and/or secure title to such i	nventions
with assignee;			
III. Represent, warrant and covenant that I have			gned 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 here	in shall also bind all of my heirs, exe	cutors, administrators, legal representa	tives, and
assigns; and		•	
V. Agree that an authorized representative	of assignee is hereby granted the	power to Insert in this assignment ar	y further
identification which may be necessary or desir			
office of any other country for recordation	of this Assignment, including the p	ower to insert on this assignment in	formation
regarding application number and filing date w			
In Witness Whereof, I have executed this Wo			Vorldwide
Assignment shall be effective as of the earliest	priority date for the aforesaid applica	non(s) for Letters Patent.	
i	1 DA		
JASON MICHAEL PROTHRO	if by h	3/4/2020	
Name of Inventor 7	Signature of Inventor	Date	

	MOUTDANIDE WOOMINIEM!	
I, the undersigned STEVEN TYLER THORNTON, her		
the subject matter of which is described in the app  declaration executed on 3/23/2		T NO: 8305-US-NP
	nt Application Serial No.	, filed on
PCT Application Serial No.	filed on	, med on,
which claim(s) its earliest priority to Application 9		, filed on .
		, nied on, need on nowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is here		rowieogeo, and in fulliliment of my pre-existing
I. Sell, assign, and transfer unto PIONEER HI-BRED		on organized and existing under the laws of the
State of Iowa in the United States of America and		
Johnston, Iowa 50131-1014, herein referred to as t		
		for Letters Patent ("Patent"), (2) any priority
rights derived from such aforesaid application(s) for		
Property ("International Convention") and any o		
countries of the International Convention or othe		
(3) any and all of my inventions, whether joint of		* * * * * * * * * * * * * * * * * * * *
arising out of such aforesaid application(s) for Pate		
in any country whatsoever, including all provisions		
part, international and convention applications ba inventions, (5) any and all patents for any such in		
extensions of any patent based in whole or in part		
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 a		
transfer all of said patents to said assignee in acco		
and damages for any and all infringements thereo		· · · · · · · · · · · · · · · · · · ·
said patents may be granted, as fully and entirely assignment;	as the same would have been held	and enjoyed by the undersigned without this
II. Agree, whenever assignee asks, without further		
		atives, any facts known to me respecting such
Inventions or the rights described above, (B) to the		
above, the location of that testimony to be in the	country in which I reside or in the n	earest country in which such testimony is legal
should my country of residence prohibit such testi		
by said assignee, its successors, assigns and legal including petitions, specifications, oaths, assignment		
requested by said assignee and (D) generally to		
representatives to obtain, maintain, defend and er		
with assignee;	notes patent protection for such in	ventions and/or secure title to such inventions
III. Represent, warrant and covenant that I have the	ne full right and lawful authority to	make this assignment, that such assigned right
is not pre-dated by any grant, license, or other righ	t heretofore given by me to any par	rty other than the assignee hereto:
IV. Agree that my grants and obligations herein sh		
assigns; and		
V. Agree that an authorized representative of a	assignee is hereby granted the po	wer 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 t	his Assignment, including the pov	ver to insert on this assignment information
regarding application number and filing date when		
In Witness Whereof, I have executed this Worldw		
Assignment shall be effective as of the earliest prior	rity date for the aforesaid application	n(s) for Letters Patent.
	A A TO DA	
STEVEN TYLER THORNTON	IN ON TON	3/23/20
Name of Inventor 8	Signature of Inventor	Date
<del>-</del>	G	www.

**REEL: 054150 FRAME: 0735** 

**PATENT** 

**RECORDED: 10/23/2020**