PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6583158

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RUSSELL FOX	03/26/2020
ELLIOT LEE HEFFNER	03/19/2020
GARY EDWARD HENKE	03/07/2020
SARA JANE LIRA	03/23/2020
GORAN SRNIC	03/20/2020
TARA LUANA BARRETT TARNOWSKI	06/20/2020

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:	17077182

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

Correspondent Name: PIONEER HI-BRED INTERNATIONAL, INC.

Address Line 1: 7250 NW 62ND AVENUE

Address Line 2: PO BOX 552

Address Line 4: JOHNSTON, IOWA 50131-0552

ATTORNEY DOCKET NUMBER:	8383-US-NP
NAME OF SUBMITTER:	LYNDA FITZPATRICK
SIGNATURE:	/Imfitzpatrick/
DATE SIGNED:	03/04/2021

Total Attachments: 6

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WORLDWIDE ASSIGNMENT			
I, the undersigned <u>RUSSELL FOX</u> , hereby declare that I am an inventor of an invention entitled <u>MAIZE HYBRID X13P482</u> the subject			
	ation for patent (Attorney Docket No: 8383-	US-NP_)	
declaration executed on			
United States Of America	Patent Application Serial No.	, filed on,	
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to App	lication Serial No.	, filed on	
For valuable consideration, the re	eceipt and adequacy of which is hereby ackn	owledged, and in fulfillment of my pre-existing	
obligation of assignment to assignee, which			
		n organized and existing under the laws of the	
		ness at 7100 NW 62 nd Avenue, P.O. Box 1014,	
	ed to as the assignee, and to assignee's succe		
		for Letters Patent ("Patent"), (2) any priority	
=		mal Convention for the Protection of Industrial	
• • •	· · · · · · · · · · · · · · · · · · ·	ntellectual 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-in-	
		aforesald 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	
Convention or any other treaty or unders	standing, (3) have said patents granted in its	s name or mine, the Commissioner of Patents	
and Trademarks of the United States of A	merica and any counterpart in any other pa	tent office being hereby authorized to issue or	
		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			
		earest country in which such testimony is legal	
		s, 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			
- · · · · · · · · · · · · · · · · · · ·	=	id assignee, its successors, assigns, and legal	
		ventions and/or secure title to such inventions	
with assignee;	id and emorce patent protection for saul in	ventions and/or secure title to such inventions	
	I have the full right and lawful authority to	make this assignment, that such assigned right	
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 representa	ative of 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			
		ver to insert on this assignment information	
regarding application number and filing da	ate 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.			
	_		
DUCCELL FOY	0 11 7	3/26/2020	
RUSSELL FOX Name of Inventor 1	Signature of Inventor	5/ 2// 10 20 Date	
MOUND OF HINGHITOF T	Signature of Inventor	Date	

PATENT

REEL: 055490 FRAME: 0756

	WORLDWIDE ASSIGN			
I, the undersigned ELLIOT LEE HEFFNER, h				MAIZE HYBRID X13P482 the
subject matter of which is described in the declaration executed on	application for patent (Attorney $-19-20$	Docket No: 8383	(-US-NP)	
▼ United States Of America	Patent Application Serial No.	17/077182	, filed on	22 OCTOBER 2020,
PCT Application Serial No.	filed on			-
which claim(s) its earliest priority to Appli	cation Serial No.		, filed	on .
For valuable consideration, the rec	eipt and adequacy of which is h	ereby acknowled	ged, and in fu	ulfillment of my pre-existing
obligation of assignment to assignee, which	is hereby acknowledged, There	by:		
I. Sell, assign, and transfer unto PIONEER H	I-BRED INTERNATIONAL, INC., a	corporation orga	nized and ex	isting under the laws of the
State of Iowa in the United States of Ame	rica and having its principal pla	ce of business at	7100 NW 6	2 nd Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred	d to as the assignee, and to assig	nee's successors	and assigns,	
(A) the entire right, title, and interest	in and to: (1) the aforesaid app	olication(s) for Le	tters Patent	("Patent"), (2) any priority
rights derived from such aforesaid applicati	ion(s) for Patent by virtue of the	International Co	nvention for	the Protection of Industrial
Property ("International Convention") and	any other treaty or understa	nding for intelled	tual propert	y for any and all member
countries of the International Convention	or other treaty or understandin	g, including right	s in any and	all provisional applications,
(3) any and all of my inventions, whether	joint or sale, disclosed in such	aforesaid applica	ation(s) for P	atent, and/or related to or
arising out of such aforesaid application(s)	for Patent ("Inventions"), (4) a	iny and all applica	ations for Pat	ent for any such inventions
in any country whatsoever, including all pro-	ovisional, non-provisional, divisi	onal, renewal, su	bstitute, con	tinuation, continuations-in-
part, international and convention applicat				
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 Am				
transfer all of said patents to said assignee		The second secon		
and damages for any and all infringements				
said patents may be granted, as fully and e	entirely as the same would have	been held and e	njoyed by th	e undersigned without this
assignment;	7 31 St. 1			
II. Agree, whenever assignee asks, without	·	_		
(A) to communicate to said assignee, i				
Inventions or the rights described above, (
above, the location of that testimony to be				
should my country of residence prohibit sur				
by said assignee, its successors, assigns a				
including petitions, specifications, oaths,				
requested by said assignee and (D) generatives to obtain maintain defend			~	
representatives to obtain, maintain, defend with assignee;	and enforce patent protection	for such inventio	ns and/or se	cure title to such inventions
	toning the fall wight and lauful or	athematica at a marrier t	alla for an erast area una e	and advantage of the second and absolute
III. Represent, warrant and covenant that I is not pre-dated by any grant, license, or other than the second secon				
IV. Agree that my grants and obligations h	· · · · · · · · · · · · · · · · · · ·			
assigns; and	erent shan also billo all of hity th	ens, executors, at	ummsuators	, legar representatives, and
V. Agree that an authorized representat	ive of assigned is hereby grant	tod the nower to	a incart in t	nie accionment any further
identification which may be necessary or d				
office of any other country for recordation				
regarding application number and filing dat		ig the power to	HISELL OIL G	ns assignment imprination
		ina to Rhada i i		i
In Witness Whereof, I have executed this V		· · · · · · · · · · · · · · · · · · ·		
Assignment shall be effective as of the earliest priority date for the aforesaid application(s) for Letters Patent.				
	Eld I Y	andra.	- 17 37	:
ELLIOT LEE HEFFNER			- 3 ··· (°)	1-20
Name of Inventor 2	Signature of Inventor		Date	

WORLDWIDE ASSIGNMENT

I, the undersigned <u>GARY EDWARD HENKE</u> , hereby desubject matter of which is described in the application	n for patent (Attorney Docket No: 8383-	
declaration executed on 317120	70	
United States Of America Patent	Application Serial No.	, filed on,
PCT Application Serial No.	filed on	
which claim(s) its earliest priority to Application Ser	rial No.	, filed on
For valuable consideration, the receipt and a		ed, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is hereby	• •	
I. Sell, assign, and transfer unto PIONEER HI-BRED IN State of lowa in the United States of America and I Johnston, lowa 50131-1014, herein referred to as the (A) the entire right, title, and interest in and to rights derived from such aforesaid application(s) for Property ("International Convention") and any othe countries of the International Convention or other t (3) any and all of my inventions, whether joint or sarising out of such aforesaid application(s) for Patent in any country whatsoever, including all provisional, part, international and convention applications base inventions, (5) any and all patents for any such invextensions of any patent based in whole or in part up the entire right to (1) file such applications in its na	naving its principal place of business at assignee, and to assignee's successors at (1) the aforesaid application(s) for Letipatent by virtue of the International Corer treaty or understanding for intellect reaty or understanding, including rights cole, disclosed in such aforesaid application("Inventions"), (4) any and all applicationon-provisional, divisional, renewal, subtle in whole or in part upon such aforesaid entions in any country whatsoever, inclusion such aforesaid application(s) for Letipatent	7100 NW 62 rd Avenue, P.O. Box 1014, and assigns, ters Patent ("Patent"), (2) any priority evention for the Protection of Industrial rual property for any and all member in any and all provisional applications, tion(s) for Patent, and/or related to ortions for Patent for any such Inventions estitute, continuation, continuations-ind application(s) for Patent and/or such ding any and all reexams, reissues and ters Patent and/or such Inventions; (8)
Convention or any other treaty or understanding, (3 and Trademarks of the United States of America and transfer all of said patents to said assignee in accord and damages for any and all infringements thereof, said patents may be granted, as fully and entirely as assignment; II. Agree, whenever assignee asks, without further co	any counterpart in any other patent off ance herewith, and (4) enforce said pat whether past, present or future, to the the same would have been held and er	ice being hereby authorized to issue or sents and to sue for and recover profits full end of the term or terms for which njoyed by the undersigned without this
(A) to communicate to said assignee, its success inventions or the rights described above, (B) to test above, the location of that testimony to be in the coushould my country of residence prohibit such testimoly said assignee, its successors, assigns and legal rincluding petitions, specifications, oaths, assignment requested by said assignee and (D) generally to direpresentatives to obtain, maintain, defend and enfowith assignee;	fors, assigns, and legal representatives, a city in any legal proceeding respecting suntry in which I reside or in the nearest copy, (C) to execute all applications, paper expresentatives, to carry into effect any ints, disclaimers, and lawful affidavits in everything possible to aid said assignce patent protection for such invention	any facts known to me respecting such uch Inventions or the rights described country in which such testimony is legal as or instruments necessary or required of the provisions of this instrument, in form and substance which may be nee, its successors, assigns, and legal is and/or secure title to such inventions
III. Represent, warrant and covenant that I have the is not pre-dated by any grant, license, or other right h IV. Agree that my grants and obligations herein shal assigns; and V. Agree that an authorized representative of assidentification which may be necessary or desirable to office of any other country for recordation of this regarding application number and filing date when kn	eretofore given by me to any party othe I also bind all of my heirs, executors, ad signee is hereby granted the power to be comply with the rules of the U.S. Pate Assignment, including the power to it	r than the assignee hereto; ministrators, legal representatives, and insert in this assignment any further int and Trademark Office or the patent
In Witness Whereof, I have executed this Worldwide Assignment shall be effective as of the earliest priority		
GARY EDWARD HENKE Name of Inventor 3	Mary Elwase Henry Signature of Inventor	3/7/2020 Date

WORLDWIDE ASSIGNMENT			
I, the undersigned SARA JANE LIRA, hereby de			
subject matter of which is described in the applic		: <u>8383-US-NP</u>)	
\boxtimes declaration executed on $3/2$	3/2020		
United States Of America Par	tent Application Serial No.	, filed on ,	
PCT Application Serial No.	filed on		
which claim(s) its earliest priority to Application		, filed on .	
		owledged, and in fulfillment of my pre-existing	
obligation of assignment to assignee, which is he	• •		
I. Sell, assign, and transfer unto PIONEER HI-BRE		n organized and existing under the laws of the	
State of lowa in the United States of America a			
Johnston, Iowa 50131-1014, herein referred to a			
· · · · · · · · · · · · · · · · · · ·		for Letters Patent ("Patent"), (2) any priority	
rights derived from such aforesaid application(s)			
Property ("international Convention") and any	other treaty or understanding for I	ntellectual property for any and all member	
countries of the International Convention or otl	ner treaty or understanding, including	g 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 Pa	atent ("Inventions"), (4) any and all	applications for Patent for any such inventions	
in any country whatsoever, including all provision	onal, non-provisional, divisional, renev	wal, substitute, continuation, continuations-in-	
part, International and convention applications	based in whole or in part upon such a	aforesaid application(s) for Patent and/or such	
inventions, (5) any and all patents for any such	Inventions in any country whatsoever	er, including any and all reexams, reissues and	
extensions of any patent based in whole or in pa	art upon such aforesaid application(s)	for Letters Patent and/or such Inventions; (B)	
the entire right to (1) file such applications in It	s name or in my name, (2) file such	applications under the aforesaid International	
Convention or any other treaty or understanding	g, (3) have said patents granted in it	s name or mine, the Commissioner of Patents	
and Trademarks of the United States of America	and any counterpart in any other pa	tent office being hereby authorized to issue or	
transfer all of said patents to said assignee in ac	cordance herewith, and (4) enforce :	said patents and to sue for and recover profits	
and damages for any and all infringements there	eof, whether past, present or future,	to the full end of the term or terms for which	
said patents may be granted, as fully and entire	ly as the same would have been held	and enjoyed by the undersigned without this	
assignment;			
II. Agree, whenever assignee asks, without furth	er compensation but at assignee's exp	pense for actual and reasonable costs incurred,	
(A) to communicate to said assignee, its sur	ccessors, assigns, and legal represent	atives, any facts known to me respecting such	
Inventions or the rights described above, (B) to	testify in any legal proceeding resp	ecting such inventions or the rights described	
above, the location of that testimony to be in th	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	
should my country of residence prohibit such te			
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	enforce patent protection for such in	ventions and/or secure title to such inventions	
with assignee;			
III. Represent, warrant and covenant that I have			
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, execut	tors, administrators, legal representatives, and	
assigns; and			
V. Agree that an authorized representative o			
identification which may be necessary or desira			
office of any other country for recordation of		ver to insert on this assignment information	
regarding application number and filing date who			
In Witness Whereof, I have executed this World	-	· ·	
Assignment shall be effective as of the earliest pr	iority date for the aforesaid application	n(s) for Letters Patent.	
	0 2 1 -		
CADA TARRETTO	Variable fire	3/23/20	
SARA JANE LIRA	AW MELL OF ME		
Name of Inventor 4	Signature of Inventor	Date	

WORLDWIDE ASSIGNMENT

I, the undersigned GORAN SRNIC, hereby declare to		
matter of which is described in the application for p		<u>-US-NP}</u>
declaration executed on 10 Mine of		
United States Of America Patent	t Application Serial No.	, filed on
PCI Application Serial No.	filed on	
which claim(s) its earliest priority to Application So For valuable consideration, the receipt and	erial No.	
		nowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is hereb		
I. Selt, assign, and transfer unto PIONEER HI-BRED II		
State of Iowa in the United States of America and		
inhesion, Iowa 50131-1014, herein referred to as the		
(A) the entire right, title, and interest in and to		
rights derived from such aforesaid application(s) to Property ("International Convention") and any of		
countries of the International Convention or other		
(3) any and all of my inventions, whether joint or		
arising out of such aforesaid application(s) for Pater		
in any country whatsoever, including all provisional		
part, international and convention applications bas	•	
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 n		
Convention or any other treaty or understanding, I	(3) have said patents granted in a	its name or mine, the Commissioner of Patenti
and Trudemarks of the United States of America an		
transfer all of said patents to said assignme in accor-	dance herewith, and (4) enforce	said patents and to sue for and recover profits
and damages for any and all infringements thereof		
said patents may be granted, as fully and entirely a	is the same would have been hel	ld and enjoyed by the undersigned without this
assignment;		
11. Agree, whenever assignee asks, without further a		
(A) to communicate to said assignee, its succe		
Inventions or the rights described above, (8) to te		
above, the location of that testimony to be in the coshould my country of residence prohibit such testing		
by said assignee, its successors, assigns and legal		
including petitions, specifications, oaths, assignm		
requested by said assignee and (D) generally to		
representatives to obtain, maintain, defend and on		
with assignee;		The second secon
III Represent, warrant and covenant that I have th	e full right and lawful authority to	o make this assignment, that such assigned cigh
is not pre-dated by any grant, ficense, or other right	heretofore given by me to any pa	orty other than the assignee hereto:
IV. Agree that my grants and obligations herein sh	all also bind all of my heirs, execu	utors, administrators, legas representatives, ani
assigns; and		- '
V. Agree that an authorized representative of a	ssigned is hereby granted the p	lower to insert in this assignment any furthe
Identification which may be necessary or desirable		
office of any other country for recordation of the		wer to insert on this assignment information
regarding application number and filing date when	known.	
In Witness Whereof, I have executed this Worldwi		
Assignment shall be effective as of the outlest prior	ity date for the aforesaid application	on(s) for Letters Patent,
	- سم	·
GORAN SRNIC	Gotter Sini	10 March 2020
Name of inventor 5	Signature of Inventor	Date

	WORLDWIDE ASSIGNMENT	
		inventor of an invention entitled MAIZE HYBRID
X13P482 the subject matter of which is described	d in the application for patent (Attor	mey Docket No: <u>8383-US-NP</u>)
declaration executed on()//	5/20	
United States Of America Par	tent Application Serial No.	, filed on,
PCT Application Serial No.	filed on	
which claim(s) its earliest priority to Application	n Serial No.	, filed on
		knowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is he		
		tion organized and existing under the laws of the
		siness at 7100 NW 62 nd Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred to a		
		s) for Letters Patent ("Patent"), (2) any priority
		tional Convention for the Protection of Industrial r 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
		Ill applications for Patent for any such Inventions
-		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 pa	art upon such aforesaid application	(s) for Letters Patent and/or such Inventions; (B)
the entire right to (1) file such applications in it	ts name or in my name, (2) file suc	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
	ely as the same would have been h	eld and enjoyed by the undersigned without this
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;	,	
III. Represent, warrant and covenant that I have	e the full right and lawful authority	to make this assignment, that such assigned right
is not pre-dated by any grant, license, or other ri		
		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
regarding application number and filing date wh		
		cated by my hand and agree that this Worldwide
Assignment shall be effective as of the earliest pr	riority date for the aforesaid applicat	ion(s) for Letters Patent.
TARA LUANA BARRETT	tan	1/10/20
TARNOWSKI	- Many To	6/20/00
Name of Inventor 6	Signature of Inventor	Date

PATENT REEL: 055490 FRAME: 0761

RECORDED: 03/04/2021