506805565 08/06/2021

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6852384

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CANDIDA BRAGA CABRAL	06/17/2021
NICHOLAS JAMES HAASE	06/21/2021
JORDAN MICHAEL PACE	06/14/2021
CHRISTOPHER MICHAEL SCHAEFER	06/21/2021
GERHARD P WEBER	06/18/2021

#### 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:	17377742

### **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:	8733-US-NP
NAME OF SUBMITTER:	LYNDA FITZPATRICK
SIGNATURE:	/lmfitzpatrick/
DATE SIGNED:	08/06/2021

## **Total Attachments: 5**

source=8733-US-NP\_X00R828\_Executed\_Assignment#page1.tif source=8733-US-NP\_X00R828\_Executed\_Assignment#page2.tif source=8733-US-NP\_X00R828\_Executed\_Assignment#page3.tif source=8733-US-NP\_X00R828\_Executed\_Assignment#page4.tif source=8733-US-NP\_X00R828\_Executed\_Assignment#page5.tif

## WORLDWIDE ASSIGNMENT

		r of an invention entitled MAIZE HYBRID XOOR828
the subject matter of which is described in the		жет: ис. <u>8733-05-ие.</u> )
deciaration executed on 6(15	Catant Application Carlot Na	ElSwed wee
United States Of America	ratent Application Senai No.	, filed on, filed on, filed on cknowledged, and in fulfillment of my pre-existing
[ ] PCI Application Serial No.	tiled on	200000
which claim(s) its earliest priority to Applica	tion Serial No.	, med on
For valuable consideration, the recei	pt and adequacy of which is hereby as	cknowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is		ition organized and existing under the laws of the
		usiness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred t		
	0.0 700	(s) for Letters Patent ("Patent"), (2) any priority
		ational Convention for the Protection of Industrial
		or intellectual property for any and all member
		ding rights in any and all provisional applications,
		uid application(s) for Patent, and/or related to or
		all applications for Patent for any such Inventions
in any country whatsoever, including all prov	isional, non-provisional, divisional, re	newal, substitute, continuation, continuations in-
part, international and convention application	ns based in whole or in part upon suc	ch aforesaid application(s) for Patent and/or such
		ever, including any and all reexams, reissues and
		i(s) for Letters Patent and/or such inventions;(8)
		ch applications under the aforesaid International
		n its name or mine, the Commissioner of Patents
		patent office being hereby authorized to issue or
		ce said patents and to sue for and recover profits
		re, to the full end of the term or terms for which
assignment;	itely as tile same would have been t	reld and enjoyed by the undersigned without this
	rthar companiesting but at accionegic	expense for actual and reasonable costs incurred,
		entatives, any facts known to me respecting such
		especting such inventions or the rights described
	700	e nearest country in which such testimony is legal
		ions, 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, as	signments, disclaimers, and lawful a	affidavits in form and substance which may be
requested by said assignee and (O) general	ly to do everything possible to aid	said assignee, its successors, assigns, and legal
representatives to obtain, maintain, defend a	nd enforce patent protection for such	n Inventions and/or secure title to such inventions
with assignee;		
		to make this assignment, that such assigned right
is not pre-dated by any grant, license, or othe		
	ein shaii aiso bind all of my heirs, exe	ecutors, administrators, legal representatives, and
assigns; and		2. 1. 1. 2. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
		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
regarding application number and filing dates		power to macrification assignment intorniation
		cated by my hand and agree that this Worldwide
Assignment shall be effective as of the earlies	upricarty date for the aforesaid applic	acon(s) ionueiters ratent.
	0.1	**
CANDIDA DO A CARDAN	/17,CM	6/17/2021
CANDIDA BRAGA CABRAL		T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name of inventor 1	Signature of Inventor	pare

WORLDWIDE ASSIGNMENT
, the undersigned NICHOLAS JAMES HAASE, hereby declare that I am an inventor of an invention entitled MAIZE HYBRID XDOR828
the subject matter of which is described in the application for patent (Attorney Docket No: 8733-US-NP_)
$\boxtimes$ declaration executed on $6[\Im]$
United States Of America Patent Application Serial No, filed on,
PCT Application Serial Nofiled 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:
. 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>nd</sup> Avenue, P.O. Box 1014,
ohnston, 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
ights 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
n 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
nventions, (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 aforesaid application(s) for Letters Patent and/or such Inventions; (B)
he 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;
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;
V. 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 dentification 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
egarding application number and filing date when known.
n 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.
ministration where we were present which was not been the control of the present of the control

Signature of Inventor

NICHOLAS JAMES HAASE

Name of Inventor 2

	WORLDWIDE ASSIGNMENT	
I, the undersigned JORDON MICHAEL PACE, here	eby declare that I am an inventor	of an invention entitled $\underline{\text{MAIZE HYBRID X00R828}}$
the subject matter of which is described in the ap	plication for patent (Attorney Doc	ket No: <u>8733-US-NP</u> )
$\boxtimes$ declaration executed on $\boxed{-14}$	-2(	
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		, filed on .
		knowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is her		-
I. Sell, assign, and transfer unto PIONEER HI-BRED	INTERNATIONAL, INC., a corpora	tion organized and existing under the laws of the
State of Iowa in the United States of America ar	nd having its principal place of bu	ısiness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred to as		
		(s) for Letters Patent ("Patent"), (2) any priority
rights derived from such aforesaid application(s)		
Property ("International Convention") and any		
countries of the International Convention or oth		
(3) any and all of my inventions, whether joint		
arising out of such aforesaid application(s) for Pat		
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 par		
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		
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 entirely		
assignment;		
II. Agree, whenever assignee asks, without furthe	r compensation but at assignee's	expense for actual and reasonable costs incurred,
		entatives, any facts known to me respecting such
Inventions or the rights described above, (B) to		
above, the location of that testimony to be in the	•	
should my country of residence prohibit such test	* * * *	
by said assignee, its successors, assigns and leg		
including petitions, specifications, oaths, assign		
requested by said assignee and (D) generally to		
representatives to obtain, maintain, defend and $\epsilon$ with assignee;	emorce patent protection for such	inventions and/or secure title to such inventions
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 rig		
IV. Agree that my grants and obligations herein s	shall also bind all of my heirs, exe	cutors, 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 desirab		
office of any other country for recordation of	this Assignment, including the p	power to insert on this assignment information
regarding application number and filing date whe	n known.	
In Witness Whereof, I have executed this World	wide Assignment on the date indi	cated by my hand and agree that this Worldwide
Assignment shall be effective as of the earliest price	ority date for the aforesaid applica-	tion(s) for Letters Patent.
-	- •	
	11	I = I
JORDON MICHAEL PACE	Willow Yan	Le-14-21
Name of Inventor 3	Signature of Inventor	Date

**PATENT REEL: 057103 FRAME: 0306** 

	WORLDWIDE ASSIGNMENT		
I, the undersigned CHRISTOPHER MICHAEL SCHAE	<u>FER,</u> hereby declare that I am an it	iventor of an invention (	entitled <u>MAIZE HYBRID</u>
X00R828 the subject matter of which is described in	Fig. 1. Control of the control of th	ey Docket No: <u>8733-US</u> -	NP_)
declaration executed on			
United States Of America Pater	it Application Serial No.	, filed on	
PCT Application Serial No.			
which claim(s) its earliest priority to Application 5	erial No.	, filed on	
which claim(s) its earliest priority to Application 5 For valuable consideration, the receipt an	d adequacy of which is hereby ackn	owledged, and in fulfilln	nent of my pre-existing
obligation of assignment to assignee, which is here			
I. Sell, assign, and transfer unto PIONEER HI-BRED	INTERNATIONAL, INC., a corporatio	n organized and existing	; under the laws of the
State of Iowa in the United States of America and			venue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred to as t	T. 1000000	•	
(A) the entire right, title, and interest in and			
rights derived from such aforesaid application(s) fo			
Property ("International Convention") and any o			
countries of the International Convention or other			
(3) any and all of my inventions, whether joint o 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 r			
Convention or any other treaty or understanding,			
and Trademarks of the United States of America ar	nd any counterpart in any other pa	tent office being hereby	authorized to issue or
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	as the same would have been held	and enjoyed by the un	dersigned without this
assignment;			
II. Agree, whenever assignee asks, without further			
(A) to communicate to said assignee, its succe			
Inventions or the rights described above, (8) to to above, the location of that testimony to be in the c			
should my country of residence prohibit such testin			
by said assignee, its successors, assigns and lega			
including petitions, specifications, oaths, assignment			
requested by said assignee and (D) generally to			
representatives to obtain, maintain, defend and en			
with assignee;			
III. Represent, warrant and covenant that I have the	ie full right and lawful authority to	make this assignment, ti	nat such assigned right
is not pre-dated by any grant, license, or other righ	t heretofore given by me to any pai	ty other than the assign	ec hereto;
IV. Agree that my grants and obligations herein sh	iall also bind all of my heirs, execut	ors, administrators, lega	al representatives, and
assigns; and	.030		
V. Agree that an authorized representative of a			
identification which may be necessary or desirable			
office of any other country for recordation of the		ver to insert on this as	signment information
regarding application number and filing date when			
In Witness Whereof, I have executed this Worldw			ce that this Worldwide
Assignment shall be effective as of the earliest prior	ity date for the aforesaid application	n(s) for Letters Patent.	
CONTROL TO THE TOTAL A ALCOHOLOGY			
CHRISTOPHER MICHAEL	Male at Management	- 12 A . A	. / "
SCHAEFER		<u> </u>	**************************************
Name of Inventor 4	Signature of Inventor	• Date	

# **WORLDWIDE ASSIGNMENT**

·	<u>ER</u> , hereby declare that I am an inventor of an In the application for patent (Attorney Docket N	n invention entitled <u>MAIZE HYBRID X00R828</u> the No: <u>8733-US-NP</u> )
	June 18, 2021	
United States Of America	Patent Application Serial No.	, filed on ,
		, med on,
PCT Application Serial No.	filed on	, filed on .
which claim(s) its earliest priority to		, med on knowledged, and in fulfillment of my pre-existing
	which is hereby acknowledged, I hereby:	knowledged, and in fullillinent of my pre-existing
		tion organized and existing under the laws of the
		siness at 7100 NW 62 <sup>nd</sup> Avenue, P.O. Box 1014,
	ferred to as the assignee, and to assignee's successit application.	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,
		id application(s) for Patent, and/or related to or
		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
		(s) for Letters Patent and/or such Inventions; (B)
		th 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
		re, to the full end of the term or terms for which
		eld and enjoyed by the undersigned without this
assignment;	and entirely as the same would have been he	era and enjoyed by the andersigned without this
9	hout further compensation but at assignee's a	expense for actual and reasonable costs incurred,
		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
		effect any of the provisions of this instrument,
		ffidavits in form and substance which may be
	<del>-</del>	said assignee, its successors, assigns, and legal
- · · · · · · · · · · · · · · · · · · ·		Inventions and/or secure title to such Inventions
with assignee;	ordina and control patern protection for such	
<del>-</del>	that I have the full right and lawful authority t	to make this assignment, that such assigned right
•	or other right heretofore given by me to any p	
		cutors, administrators, legal representatives, and
assigns; and		
<del>-</del> :	entative of assignee is hereby granted the	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 filir		Ü
		cated by my hand and agree that this Worldwide
	-	• •
Assignment shall be effective as of the	earliest priority date for the aforesaid applicat	ion(s) for Letters Falcill.
GERHARD P WEBER	Par DIN .	June 18, 2021
•	Signature of Lancardan	<del></del>
Name of Inventor 5	Signature of Inventor	Date

**RECORDED: 08/06/2021**