PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4045572

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TERRY R COLBERT	03/14/2016
MARK JACOB GADLAGE	03/15/2016
DANIEL PRESTON GORMAN	03/17/2016
THOMAS RUSSELL HENRY	03/23/2016
NATHAN BROOK O'BERRY	03/18/2016
JASON MICHAEL PROTHRO	03/17/2016

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	15086250		

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: 515-535-0647

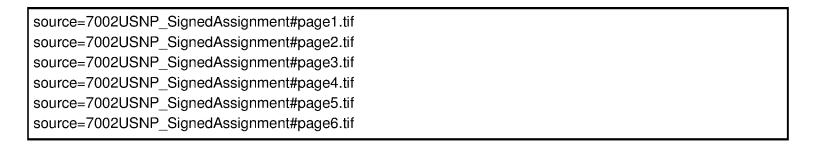
Email: ipsupport@pioneer.com LYNDA FITZPATRICK **Correspondent Name:** 7250 NW 62ND AVE Address Line 1: Address Line 4: JOHNSON, IOWA 50131

ATTORNEY DOCKET NUMBER:	7002-US-NP
NAME OF SUBMITTER:	LYNDA M. FITZPATRICK
SIGNATURE:	/lmfitzpatrick/
DATE SIGNED:	09/09/2016

Total Attachments: 6

PATENT REEL: 039690 FRAME: 0101

503998916



PATENT REEL: 039690 FRAME: 0102

	MOKIDMIDE ASSIGNIMENT	
I, the undersigned <u>TERRY R COLBERT</u> , hereb subject matter of which is described in the ap		vention entitled MAIZE HYBRID X18H537 the
declaration executed on	Silvation for patent (Attorney booker No.	7002 03 111 /
5-3	Patent Application Serial No. 15/086250	, filed on <u>March 31, 2016</u> ,
	• • • • • • • • • • • • • • • • • • • •	, med on <u>Warch 31, 2010</u> ,
	filed on	, filed on .
which claim(s) its earliest priority to Applicat		pwledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is		wiedged, and in ruminient of my pre-existing
•		organized and existing under the laws of the
, -		ess at 7100 NW 62™ Avenue, P.O. Box 1014
Johnston, Iowa 50131-1014, herein referred to		
(A) the entire right, title, and interest in	and to: (1) the aforesaid application(s)	for Letters Patent ("Patent"), (2) any priority
		nal Convention for the Protection of Industria
		ntellectual property for any and all member
	•	rights in any and all provisional applications
		application(s) for Patent, and/or related to or
	* * * * *	applications for Patent for any such Inventions val, substitute, continuation, continuations-in-
		foresaid application(s) for Patent and/or such
		r, including any and all reexams, reissues and
		for Letters Patent and/or such Inventions; (B)
		applications under the aforesaid Internationa
		name or mine, the Commissioner of Patents
		ent office being hereby authorized to issue or
		aid patents and to sue for and recover profits
		to the full end of the term or terms for which
said patents may be granted, as fully and ent assignment;	irely as the same would have been held	and enjoyed by the undersigned without this
•	ther compensation but at assignee's evo	ense for actual and reasonable costs incurred,
(A) to communicate to said assignee, its	successors, assigns, and legal representa	itives, any facts known to me respecting such
Inventions or the rights described above, (B)	to testify in any legal proceeding respe	cting such Inventions or the rights described
above, the location of that testimony to be in	the country in which I reside or in the ne	arest 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 effe	ect any of the provisions of this instrument,
including petitions, specifications, oaths, ass	ignments, disclaimers, and lawful affic	avits in form and substance which may be
requested by said assignee and (D) generall	y to do everything possible to aid said	d assignee, its successors, assigns, and legal
epresentatives to obtain, maintain, defend ar with assignee;	nd enforce patent protection for such inv	entions and/or secure title to such inventions
II. Represent, warrant and covenant that I ha	ve the full right and lawful authority to r	nake this assignment, that such assigned right
s not pre-dated by any grant, license, or other	right heretofore given by me to any part	y other than the assignee hereto;
 V. Agree that my grants and obligations here assigns; and 	in shall also bind all of my heirs, execute	ors, administrators, legal representatives, and
	of assignee is hereby granted the nov	ver to insert in this assignment any further
dentification which may be necessary or desi	rable 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 pow	er to insert on this assignment information
egarding application number and filing date w	hen known.	33
n Witness Whereof, I have executed this Wor	dwide Assignment on the date indicate	d by my hand and agree that this Worldwide
Assignment shall be effective as of the earliest	priority date for the aforesaid applicatio	n(s) for Letters Patent.
	1 1 10	/
TERRY R COLBERT	Letrel & Collie	X 3-14-16
Name of Inventor 1	Signature of Inventor	Date

PATENT REEL: 039690 FRAME: 0103 03/15/2016 10:01 17318857967 PIONEER HI-BRED INT PAGE 09/13

	WORLDWIDE ASSIGN	<u>MENT</u>		
, the undersigned <u>MARK JACOB GADLAGE</u> , her the subject matter of which is described in the a				MAIZE HYBRID X18H537
declaration executed on				
☑ United States Of America Par	tent Application Serlal No.	15/086250	filed on	March 31, 2016
PCT Application Serial No.	filed on			
which claim(s) its earliest priority to Applicatio	n Serial No.		, filed on	
For valuable consideration, the receipt		ereby acknowledged	, and in fulfi	liment of my pre-existing
obligation of assignment to assignee, which is he	ereby acknowledged, I here	eby:		
. Sell, assign, and transfer unto PIONEER HI-BRE				
State of Iowa In the United States of America a				Avenue, P.O. Box 1014,
ohnston, Iowa 50131-1014, herein referred to a			_	
(A) the entire right, title, and interest in ar		•	-	
rights derived from such aforesald application(s)				
Property ("International Convention") and any countries of the international Convention or ot				
3) any and all of my inventions, whether joint	-		•	
arising out of such aforesaid application(s) for Pa				
n any country whatsoever, including all provision				
part, international and convention applications	•			
nventions, (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 i				
Convention or any other treaty or understandir 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 ther				
said patents may be granted, as fully and entire				
assignment;			,	· ·
II. Agree, whenever assignee asks, without furth	ner compensation but at as	signee's expense for	actual and re	easonable costs incurred,
(A) to communicate to said assignee, Its su		-		
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 te	** * *			
by sald assignee, its successors, assigns and le including petitions, specifications, oaths, assig				
requested by said assignee and (D) generally				
representatives to obtain, maintain, defend and				
with assignee;	, .		•	
III. Represent, warrant and covenant that I have	e the full right and lawful a	uthority to make this	assignment	i, that such assigned right
is not pre-dated by any grant, license, or other r		* * *		_
IV. Agree that my grants and obligations herein	n shall also bind all of my l	neirs, executors, admi	nistrators, l	egal representatives, and
assigns; and	.f a.e.!a.a.a. !- b.a.a.b			
 V. Agree that an authorized representative of identification which may be necessary or desira 		·		-
office of any other country for recordation o				
regarding application number and filing date wh	· ·	ing the power to he	icit on this	D33igittle it
In Witness Whereof, I have executed this Worl		date indicated by my	hand and s	oree that this Worldwide
Assignment shall be effective as of the earliest p				
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	MIN	2 14 10.	11	مادو سي
MARK JACOB GADLAGE	Marchant	Hall	MARC	A 15, 2016
Name of Inventor 2	Signature of Inventor	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Date	···
	- 0			

PATENT

REEL: 039690 FRAME: 0104

WORLDWIDE ASSIGNMENT

	ANOUST MADE MADICAL	
, the undersigned DANIEL PRESTON GORMAN		
X18H537 the subject matter of which is described	a in the application for patent (Attorney	A nocket wo: \(\frac{7007-02-Nb}{}\)
☐ declaration executed on ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	tour the street and t	69.2
	tent Application Serial No. 15/086250	, filed onMarch 31, 2016,
PCT Application Serial No.	filed on	£25_A
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soligation of assignment to assignee, which is he		wiedged, and in luminnent of my pre-existing
I. Sell, assign, and transfer unto PIONEER HI-BRE		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	and having its principal place of busine	ss at 7100 NW 62 nd Avenue, P.O. Box 1014,
		or Letters Patent ("Patent"), (2) any priority
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		
n any country whatsoever, including all provisio part, international and convention applications i		
nventions, (5) any and all patents for any such		
extensions of any patent based in whole or in pa		
the entire right to (1) file such applications in it		
Convention or any other treaty or understandin	g, (3) have said patents granted in its i	name or mine, the Commissioner of Patents
and Trademarks of the United States of America		The state of the s
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	ly as the same would have been held a	and enjoyed by the undersigned without this
assignment; il. Agree, whenever assignee asks, without furth	or momental his of accional avea	nee for actual and concombin coets incurred
		ives, any facts known to me respecting such
nventions or the rights described above, (B) to		The state of the s
above, the location of that testimony to be in the		
should my country of residence prohibit such tes		
by said assignee, its successors, assigns and le		
ncluding petitions, specifications, oaths, assigr		
requested by said assignee and (D) generally		
representatives to obtain, maintain, defend and with assignee;	enforce patent protection for such Inve	entions and/or secure title to such Inventions
III. Represent, warrant and covenant that I have	the full right and lawful authority to m	ake this assignment, that such assigned right
s not pre-dated by any grant, license, or other rip	ght heretofore given by me to any party	y other than the assignee hereto;
V. Agree that my grants and obligations herein	shall also bind all of my heirs, executor	rs, administrators, legal representatives, and
assigns; and		and the second control of the second
V. Agree that an authorized representative of	f assignee is hereby granted the pow	er to insert in this assignment any further
dentification which may be necessary or desiral	ole to comply with the rules of the U.S	, patent and trademark unice of the patent
office of any other country for recordation of		a fo meet on this assignment information
regarding application number and filing date who		4 ho my hand and arrow that this Warldwill
In Witness Whereof, I have executed this Work		
Assignment shall be effective as of the earliest pr	want num ne mezana altaranean.	2) 10s Thirties a mesuc
	$A \setminus AA \cdot AA$	1 18
DANIEL BRECTON CORNAN	XxxX CxxX Non-	3/12/16
DANIEL PRESTON GORMAN Name of Inventor 3	Signature of Inventor	Date /

PATENT REEL: 039690 FRAME: 0105

WORLDWIDE ASSIGNMENT

l, the u	ndersigned THOMAS RUSSELL HEI	NRY, hereby declare that I am an	inventor of an invention	on entitled <u>MAIZE HYBRID X18H537</u>
the sub	ject matter of which is described in	n the application for patent (Attor	ney Docket No: 7002-	·US-NP)
L	declaration executed on			
\boxtimes	United States Of America	Patent Application Serial No.		iled on <u>March 31, 2016</u> ,
Ц	PCT Application Serial No.	filed on	·	
which	claim(s) its earliest priority to App			, filed on
د د داداد	For valuable consideration, the re	eceipt and adequacy of which is h	ereby acknowledged,	and in fulfillment of my pre-existing
ODIIGATI	on of assignment to assignee, which	th is hereby acknowledged, I here	by:	
State o	flows in the United States of Am	missed international, inc., a	corporation organized	d and existing under the laws of the
Johnsto	n, Iowa 50131-1014, herein refern	ed to as the assigned and to assist	ce of business at /10	0 NW 62 nd Avenue, P.O. Box 1014,
(A)	the entire right, title, and interes	et to as the assignee, and to assign	liee's successors and a	assigns, Patent ("Patent"), (2) any priority
rights d	erived from such aforesaid applica	ation(s) for Patent by virtue of the	international Conven	ition for the Protection of Industrial
Propert	y ("International Convention") ar	id any other treaty or understa	nding for intellectual	property for any and all member
countri	es of the International Convention	or other treaty or understandin	R. including rights in a	iny and all provisional applications,
(3) any	and all of my inventions, whether	er joint or sole, disclosed in such	aforesaid applications	(s) for Patent, and/or related to or
arising	out of such aforesaid application(s) for Patent ("Inventions"), (4) a	ony and all applications	s for Patent for any such Inventions
in any o	ountry whatsoever, including all p	provisional, non-provisional, divisi	onal, renewal, substitu	ute, continuation, continuations-in-
part, in	ternational and convention applica	ations based in whole or in part u	ipon such aforesaid an	oplication(s) for Patent and/or such
inventio	ons, (5) any and all patents for an	ly such inventions in any country	whatsoever, including	has soussion smayper IIs has vas t
extensi	ons of any patent based in whole (or in part upon such aforesaid app	plication(s) for Letters	Patent and/or such Inventions: (B)
the ent	ire right to (1) file such application	ns in its name or in my name, (2) file such applications	s under the aforesald International
and Tra	demarks of the United States of A	itanding, (3) nave said patents gr	anted in its name or r	mine, the Commissioner of Patents
transfer	all of said natents to said assigned	merica and any counterpart in an	y other patent office b	being hereby authorized to issue or
and dar	nages for any and all infringement	ts thereof whether past process) enforce said patents	s and to sue for and recover profits end of the term or terms for which
sald par	ents may be granted, as fully and	entirely as the same would have	brituture, to the full e	end of the term or terms for which ed by the undersigned without this
assignm	ent;	Civilizity as the same woold have	peen neio and enjoye	ed by the undersigned without this
II. Agre	e, whenever assignee asks, withou	t further compensation but at ass	ignee's expense for ac	tual and reasonable costs incurred,
(M)	in communicate to said assignee"	its successors, assigns, and legal	representatives any f	facts known to ma recognized such
mvenuc	ins or the rights described above,	(B) to testify in any legal proced	eding respecting such	Inventions or the rights described
above,	ing incation of flust (estimony to be	e in the country in which I reside	or in the nearest coun	try in which such testimony is least
SHOULD I	ny country or residence pronint si	uch testimony, IC) to execute all a	applications, namers or	instruments necessary or comited
uy salu	assignee, its successors, assigns	and legal representatives, to car	ry into effect any of	the provisions of this Instrument
meraour	g pericions, specifications, oaths,	assignments, discialmers, and i	awful affidavits in fo	rm and cubetance which may be
rednest	en nå zem essikuse sud (n) Belli	erally to do everything possible	to aid said assigned	its successors assigns and local
with ass	itatives to optain, maintain, geren	a and enforce patent protection	for such Inventions and	d/or secure title to such inventions
		I have the full right and invited a		
is not pr	e-dated by any grant, license, or or	ther right horotofore given by me	thority to make this as	ssignment, that such assigned right
IV. Agre	e that my grants and obligations I	herein shall also hind all of my he	to any party other tha	in the assignee hereto; strators, legal representatives, and
assigns;	and	and disc unit all of my lie	no, executors, adminis	strators, legal representatives, and
V. Agre	e that an authorized representa	tive of assignee is hereby grant	ed the nower to inco	ert in this assignment any further
series in the life	arion willen was no werestats of a	Desirable to comply with the rule	c of the IIC Datant a	ad Tradomark Affice Alexander
office o	any other country for recordat	ion of this Assignment, including	g the power to incor	t on this assignment information
regardin	Rapplication number and filing day	to when known	, pener te nisei.	and assignment unmittation

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.

THOMAS RUSSELL HENRY

Name of Inventor 4

		WORLDWIDE ASSIGN			
i, the u	indersigned NATHAN BROOK O'BERF	RY, hereby declare that I am an	inventor of an in	vention entit	led MAIZE HYBRID X18H537
	pject matter of which is described in t declaration executed on	the application for patent (Attol	ney Docket No:	7002-US-NP	_)
\boxtimes		Detect Application Control No.		•	
	United States Of America	Patent Application Serial No.	15/086250	, filed on	March 31, 2016
سا	PCT Application Serial No.	filed on			•
WHICH	h claim(s) its earliest priority to Applic			filed,	on
obligati	For valuable consideration, the recion of assignment to assignee, which	eipt and adequacy of which is n	iereby acknowied	igea, and in t	ulfillment of my pre-existing
	assign, and transfer unto PIONEER H			anizad and av	risting under the lowe of the
State o	of lowa in the United States of Amer	rica and having its principal pla	ice of business a	t 7100 NW 6	David Avenue P.O. Roy 1014
Johnsto	on, Iowa 50131-1014, herein referred	to as the assignee, and to assig	inee's successors	and assigns.	2 Avenue, 1.0. DOX 1014,
(A)	the entire right, title, and interest	in and to: (1) the aforesaid app	plication(s) for Le	etters Patent	("Patent"), (2) any priority
rights d	lerived from such aforesald applicati	on(s) for Patent by virtue of the	International Co	nvention for	the Protection of Industrial
Propert	ty ("International Convention") and	any other treaty or understa	nding for intelle	ctual proper	ty for any and all member
countri	es of the International Convention of	or other treaty or understanding	g, including right	s in any and	all provisional applications,
(3) any oricina	y and all of my inventions, whether	JOINT Or Sole, disclosed in such	atoresaid applic	ation(s) for F	atent, and/or related to or
ai isii ig in anv ri	out of such aforesaid application(s) f country whatsoever, including all pro	ovisional non-provisional divisi	any and all applic	ations for Pai	ient for any such inventions
part, In	ternational and convention applicati	ions based in whole or in part i	inna, reliewal, 50 inna siich afares:	ibstitute, con aid applicatio	rinuation, continuations-in-
Inventio	ons, (5) any and all patents for any	such inventions in any country	whatsoever, incl	luding any an	ints) for raterit alloyor socii id all reexams roissilos and
extensi	ons of any patent based in whole or	in part upon such aforesald app	plication(s) for Le	tters Patent	and/or such Inventions: (B)
the ent	ire right to (1) file such applications	i in its name or in my name, (2) file such applic	ations under	the aforesaid international
Conven	ition or any other treaty or understa	anding, (3) have sald patents gr	anted in its nam	e or mine, th	e Commissioner of Patents
and Tra	idemarks of the United States of Am	erica and any counterpart in ar	ly other patent o	ffice being he	ereby authorized to issue or
transtei	r all of said patents to said assigned	in accordance herewith, and (4	1) enforce said pa	atents and to	sue for and recover profits
anu dai said nai	mages for any and all infringements	inereor, whether past, present	or future, to the	tull end of t	he term or terms for which
assignm	tents may be granted, as fully and e	urnery as the same would have	e been neid and 6	enjoyea by tr	ie undersigned without this
_	e, whenever assignee asks, without f	further compensation but at ass	ignee's exnense :	for actual and	t reasonable costs incurred
(A)	to communicate to sald assignee, it	s successors, assigns, and legal	representatives.	any facts kn	own to me respecting such
Inventic	ons or the rights described above, (B) to testify in any legal proces	eding respecting	such inventi	ons or the rights described
above, 1	the location of that testimony to be i	in the country in which I reside	or in the nearest	country in w	hich such testimony is legal
should	my country of residence prohibit suc	th testimony, (C) to execute all a	applications, pape	ers or instrun	nents necessary or required
by said	assignee, its successors, assigns an	nd legal representatives, to car	ry into effect ar	y of the pro	ovisions of this instrument,
incluain rocuset	ng petitions, specifications, oaths, a	assignments, disclaimers, and	lawful affidavits	in form and	substance which may be
renrese	ed by said assignee and (D) gener intatives to obtain, maintain, defend	and enforce extent protection	to aid said assi for such invention	gnee, its suc	cessors, assigns, and legal
with ass	signee:	and emoree patent protection	ior such miverno	112 SHIN CL 260	ore title to such inventions
	resent, warrant and covenant that I i	have the full right and lawful au	thority to make t	this assignme	nt, that such assigned right
s not pi	re-dated by any grant, license, or oth	er right heretofore given by me	to any party other	er than the a:	ssignee hereto:
iv. Agre	ee that my grants and obligations he	erein shall also bind all of my he	eirs, executors, a	dministrators	, legal representatives, and
assigns;	and				
V. Agre	ee that an authorized representative	ve of assignee is hereby grant	ed the power to	insert in th	nis assignment any further
dentific	cation which may be necessary or de	estrable to comply with the rule	s of the U.S. Pat	ent and Trad	emark Office or the patent
omice o	of any other country for recordation gapplication number and filing date	n of this Assignment, includin	g the power to	insert on th	is assignment information
nn Willi Ansiemn	ess Whereof, I have executed this W	voridwide Assignment on the d	ate indicated by	iny hand and	agree that this Worldwide
-rasigini	nent shall be offective as of the earlies	st priority date for the aforesaid	application(s) for	Letters Pater	nt.
		/11 3	1	/	<i>(</i>
	NATHAN BROOK OBERRY	Hatta 11	En	2/1	R/14
_	Name of Inventor 5	Signature of Inventor		Dáin	//0
	A COMPANY OF THE PROPERTY OF	ruflingeric (it til tellfol	V	17116	•

PATENT REEL: 039690 FRAME: 0107

WORLDWIDE ASSIGNMENT

	OKTO ALIDE WOOLE			
, the undersigned <u>IASON MICHAEL PROTHRO</u> , hereby	declare that I am an	inventor of an inventi	on entitled M	IAIZE HYBRID X18H537
the subject matter of which is described in the application declaration executed on	ition for patent (Actor	HEY DOCKET ING. 7002	· <u>().1-14F</u>	
	Application Serial No.	15/096350	filed on M	arch 31, 2016
	filed on	15/086250,	100 011 101	<u>arcii 31, 2010</u>
which claim(s) its earliest priority to Application Seri			, filed on	
For valuable consideration, the receipt and a	dequacy of which is h	ereby acknowledged.		nent of my pre-existing
obligation of assignment to assignee, which is hereby	acknowledged, I here	bv:		
Sell, assign, and transfer unto PIONEER HI-BRED INT	FERNATIONAL, INC., a	corporation organizes	d and existing	under the laws of the
State of lowa in the United States of America and h	aving its principal pla	ce of business at 710	00 NW 62 [™] A	venue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred to as the	assignee, and to assign	nee's successors and	assigns,	
(A) the entire right, title, and interest in and to:	(1) the aforesald ap	plication(s) for Letters	Patent ("Pat	tent"), (2) any priority
rights derived from such aforesaid application(s) for F	Patent by virtue of the	e International Conver	ition for the l	Protection of Industrial
Property ("International Convention") and any othe countries of the International Convention or other to	er treaty or understa	nding for intellectual	property loa	rovisional anniications.
(3) any and all of my inventions, whether joint or s	ole disclosed in such	g, mcluumg ngms m aforesaid application	olly and on po ols) for Paten	it, and/or related to or
arising out of such aforesaid application(s) for Patent	("Inventions"). (4)	nv and all application	is for Patent	for any such Inventions
in any country whatsoever, including all provisional,	non-provisional, divis	ional, renewal, substil	rute, continua	ation, continuations-in-
part, international and convention applications based	d in whole or in part	upon such aforesald a	pplication(s)	for Patent and/or such
Inventions, (5) any and all patents for any such Inve	ntions in any country	whatsoever, Includin	ig any and all	reexams, reissues and
extensions of any patent based in whole or in part up	oon such aforesald ap	plication(s) for Letters	: Patent and/	or such inventions; (B)
the entire right to (1) file such applications in its na	me or in my name, ()	l) file such application	is under the	atoresate international
Convention or any other treaty or understanding, (3 and Trademarks of the United States of America and	nave said patents g	ranted in its name of	heine herehi	vauthorized to issue or
and trademarks of the United States of Afficial and transfer all of said patents to said assignee in accordance	any counterpart in a	() enforce said nateni	ts and to sue	for and recover profits
and damages for any and all infringements thereof, i	whether past, presen	or future, to the full	end of the to	erm or terms for which
said patents may be granted, as fully and entirely as	the same would have	been held and enjoy	yed by the ur	idersigned without this
assignment;				
II. Agree, whenever assignee asks, without further co	mpensation but at as	signee's expense for a	ctual and rea	sonable costs incurred,
(A) to communicate to said assignee, its success	ors, assigns, and lega	I representatives, any	facts known	to me respecting such
Inventions or the rights described above, (B) to test	ify in any legal proce	eding respecting sucl	n inventions	or the rights described
above, the location of that testimony to be in the cou	intry in which I reside	or in the nearest cou	ntry in which	. Such testimony is legal is nacessary or remitted
should my country of residence prohibit such testimo by said assignee, its successors, assigns and legal r	ony, (C) to execute all	applications, papers t	if the provisir	ons of this instrument.
including petitions, specifications, oaths, assignmen	epresentatives, to de nts. disclaimers, and	lawful affidavits in f	form and sul	ostance which may be
requested by said assignee and (D) generally to d	o everything possible	to aid said assigned	e, its success	ors, assigns, and legal
representatives to obtain, maintain, defend and enfo	rce patent protection	for such Inventions a	nd/or secure	title to such Inventions
with assignee;		•		
III. Represent, warrant and covenant that I have the	full right and lawful a	uthority to make this	assignment, t	that such assigned right
is not pre-dated by any grant, license, or other right i	neretofore given by m	e to any party other ti	han the assign	iee hereto;
IV. Agree that my grants and obligations herein shall	il also bind all of my i	ieirs, executors, admii	nistrators, leg	gai representatives, and
assigns; and V. Agree that an authorized representative of ass	cionas is harahy graf	ited the newer to In	cort in this :	ssignment any further
identification which may be necessary or desirable t	a comply with the ru	les of the U.S. Patent	and Tradema	ark Office or the patent
office of any other country for recordation of this	S Assignment, includi	ng the power to ins	ert on this a	ssignment information
regarding application number and filing date when kr		•		
In Witness Whereof, I have executed this Worldwid		date indicated by my	hand and agr	ree that this Worldwide
Assignment shall be effective as of the earliest priority				
	, 			
	1 0		- 1,-1	1,,
JASON MICHAEL PROTHRO	A PNI		3/14/	16
	Signature of Inventor	<u> </u>	Date	
	\checkmark			

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