PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK JACOB GADLAGE	02/20/2018
MATTHEW DAVID SMALLEY	02/26/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15924399

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.

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Correspondent Name: PIONEER HI-BRED INTERNATIONAL, INC.

Address Line 1: 7250 NW 62ND AVENUE

Address Line 2: P.O. BOX 552

Address Line 4: JOHNSTON, IOWA 50131-0552

ATTORNEY DOCKET NUMBER:	7540-US-NP
NAME OF SUBMITTER:	LYNDA M FITZPATRICK
SIGNATURE:	/Imfitzpatrick/
DATE SIGNED:	03/23/2018

Total Attachments: 2

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PATENT REEL: 045333 FRAME: 0256 504835268

WORLDWIDE ASSIGNMENT

I, the undersigned MARK JACOB GADLAGE, subject matter of which is described in the a		on invention entitled <u>MAIZE INBRED PH2SNA</u> the
declaration executed on	production position (manual y 2 and)	, <u>, , , , , , , , , , , , , , , , , , </u>
✓ United States Of America	Patent Application Serial No.	, filed on
PCT Application Serial No.	filed on	
which claim(s) its earliest priority to Applie		, filed on .
		nowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which	•	, , , , , , , , , , , , , , , , , , , ,
I. Sell, assign, and transfer unto PIONEER HIState of Iowa in the United States of Americant Iohnston, Iowa 50131-1014, herein referred (A) the entire right, title, and interest rights derived from such aforesald application Property ("International Convention") and countries of the International Convention (3) any and all of my inventions, whether arising out of such aforesaid application(s) in any country whatsoever, including all propart, international and convention application 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 understand Trademarks of the United States of Amtransfer all of said patents to said assignee and damages for any and all infringements	I-BRED INTERNATIONAL, INC., a corporation and having its principal place of bus it to as the assignee, and to assignee's suction and to: (1) the aforesaid application(s) on(s) for Patent by virtue of the Internation any other treaty or understanding, including joint or sole, disclosed in such aforesaid for Patent ("Inventions"), (4) any and allowisional, non-provisional, divisional, remitions based in whole or in part upon such such Inventions in any country whatsoed in part upon such aforesaid application(s) in its name or in my name, (2) file such anding, (3) have said patents granted in the arcordance herewith, and (4) enforces thereof, whether past, present or future the such as the arcordance herewith, and (4) enforces thereof, whether past, present or future	on organized and existing under the laws of the iness at 7100 NW 62 nd Avenue, P.O. Box 1014, cessors and assigns,) for Letters Patent ("Patent"), (2) any priority ional Convention for the Protection of Industrial intellectual property for any and all membering rights in any and all provisional applications, application(s) for Patent, and/or related to or applications for Patent for any such Inventions ewal, substitute, continuation, continuations-inaforesaid application(s) for Patent and/or such over, including any and all reexams, reissues and in applications under the aforesaid International its name or mine, the Commissioner of Patents atent office being hereby authorized to issue or a said patents and to sue for and recover profits to the full end of the term or terms for which and enjoyed by the undersigned without this
(A) to communicate to said assignee, it inventions or the rights described above, (above, the location of that testimony to be should my country of residence prohibit such said assignee, its successors, assigns an including petitions, specifications, oaths, arequested by said assignee and (D) generopresentatives to obtain, maintain, defend with assignee; III. Represent, warrant and covenant that I is not pre-dated by any grant, license, or oth IV. Agree that my grants and obligations hassigns; and V. Agree that an authorized representation which may be necessary or displication which may be necessary or displication application number and filing data	ts successors, assigns, and legal represer (B) to testify in any legal proceeding resin the country in which I reside or in the ch testimony, (C) to execute all application diegal representatives, to carry into eassignments, disclaimers, and lawful afrally to do everything possible to aid so and enforce patent protection for such thave the full right and lawful authority the right heretofore given by me to any perein shall also bind all of my heirs, executive of assignee is hereby granted the pesirable to comply with the rules of the on of this Assignment, including the pose when known. Vorldwide Assignment on the date indicated	ower to insert in this assignment any further U.S. Patent and Trademark Office or the patent wer to insert on this assignment information atted by my hand and agree that this Worldwide
MARK JACOB GADLAGE Name of Inventor 1	Signature of inventor	2/20/2018 Date

PATENT

REEL: 045333 FRAME: 0257

WORLDWIDE ASSIGNMENT

I, the undersigned MATTHEW DAVID SMALLEY, hereby declare that I am an inventor of an invention entitled MAIZE INBRED PH2SNA
the subject matter of which is described in the application for patent (Attorney Docket No: <u>7540-US-NP</u>)
declaration executed on
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:
I. Sell, assign, and transfer unto PIONEER HI-BRED INTERNATIONAL, INC., a corporation organized and existing under the laws of the
State of lowa in the United States of America and having its principal place of business at 7100 NW 62 nd Avenue, P.O. Box 1014,
Johnston, Iowa 50131-1014, herein referred to as the assignee, and to assignee's successors and assigns,
(A) the entire right, title, and interest in and to: (1) the aforesaid application(s) for Letters Patent ("Patent"), (2) any priority
rights derived from such aforesaid application(s) for Patent by virtue of the International Convention for the Protection of Industrial
Property ("International Convention") and any other treaty or understanding for intellectual property for any and all member
countries of the International Convention or other treaty or understanding, including rights in any and all provisional applications,
(3) any and all of my inventions, whether joint or sole, disclosed in such aforesaid application(s) for Patent, and/or related to or
arising out of such aforesaid application(s) for Patent ("Inventions"), (4) any and all applications for Patent for any such Inventions in any country whatsoever, including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuations-in-
part, international and convention applications based in whole or in part upon such aforesaid application(s) for Patent and/or such
Inventions, (5) any and all patents for any such inventions in any country whatsoever, including any and all reexams, reissues and
extensions of any patent based in whole or in part upon such aforesald application(s) for Letters Patent and/or such Inventions; (B)
the entire right to (1) file such applications in its name or in my name, (2) file such applications under the aforesaid international
Convention or any other treaty or understanding, (3) have said patents granted in its name or mine, the Commissioner of Patents
and Trademarks of the United States of America and any counterpart in any other patent office being hereby authorized to issue of
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;
IV. Agree that my grants and obligations herein shall also bind all of my heirs, executors, administrators, legal representatives, and
assigns; and
V. Agree that an authorized representative of assignee is hereby granted the power to insert in this assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office or the patent
office of any other country for recordation of this Assignment, including the power to insert on this assignment information
regarding application number and filing date when known.
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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.

PATENT

REEL: 045333 FRAME: 0258

MATTHEW DAVID SMALLEY

Name of Inventor 2