

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5235323

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MARC C. ALBERTSEN	09/09/2013
ANDREW MARK CIGAN	09/06/2013
HOWARD P. HERSHEY	09/16/2013
MICHAEL W. LASSNER	09/23/2013
YONGZHONG WU	09/13/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PIONEER HI-BRED INTERNATIONAL, INC.
<b>Street Address:</b>	7100 NW 62ND AVENUE
<b>Internal Address:</b>	PO BOX 1014
<b>City:</b>	JOHNSTON
<b>State/Country:</b>	IOWA
<b>Postal Code:</b>	50131-1014
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16189499
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(515)535-6883
<i>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.</i>	
<b>Phone:</b>	515-535-5859
<b>Email:</b>	IPSUPPORT@PIONEER.COM
<b>Correspondent Name:</b>	PIONEER HI-BRED INTERNATIONAL, INC.
<b>Address Line 1:</b>	7250 NW 62ND AVENUE
<b>Address Line 2:</b>	PO BOX 552
<b>Address Line 4:</b>	JOHNSTON, IOWA 50131-0552
<b>ATTORNEY DOCKET NUMBER:</b>	5282-US-PCN
<b>NAME OF SUBMITTER:</b>	JANAE LEHMAN BELL
<b>SIGNATURE:</b>	/Janae Lehman Bell/
<b>DATE SIGNED:</b>	11/13/2018

**Total Attachments: 7**

source=20140130\_5282WOPCT\_ExecutedAssignment#page1.tif

source=20140130\_5282WOPCT\_ExecutedAssignment#page2.tif

source=20140130\_5282WOPCT\_ExecutedAssignment#page3.tif

source=20140130\_5282WOPCT\_ExecutedAssignment#page4.tif

source=20140130\_5282WOPCT\_ExecutedAssignment#page5.tif

source=20140130\_5282WOPCT\_ExecutedAssignment#page6.tif

source=20140130\_5282WOPCT\_ExecutedAssignment#page7.tif

**WORLDWIDE ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in fulfillment of a pre-existing obligation of assignment, we, Marc C. Albertsen, Andrew Mark Cigan, Howard P. Hershey, Michael W. Lassner and Yongzhong Wu at PIONEER HI-BRED INTERNATIONAL, INC., 7250 NW 62<sup>nd</sup> Avenue, P.O. Box 552, Johnston, Iowa 50131-0552, the undersigned inventor(s) has (have) sold and assigned, and by these presents hereby sells and assigns, as indicated below, unto

PIONEER HI-BRED INTERNATIONAL, INC.  
7100 NW 62<sup>nd</sup> Avenue  
P.O. Box 1014  
Johnston, Iowa 50131-1014

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the inventions in **"COMPOSITIONS AND METHODS COMPRISING MALE FERTILITY SEQUENCES"**, including all improvements to said invention ("Invention")

as set forth in this United States Patent Application and in the PCT Patent Application

- ☐ executed concurrently herewith
  - ☐ executed on
  - ☒ US Serial No. 14/019,695 filed on September 6, 2013 and;
  - ☒ PCT Serial No. PCT/US2013/58500 filed on September 6, 2013,
- which claim priority to US Serial No. 61/697,590 filed on September 6, 2012,

including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuations-in-part, international and Convention applications based in whole or in part upon said Inventions or upon said Applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said Inventions or upon said Applications and every priority right that is or may be predicated upon or arise from said Inventions, said Applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said Inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; said assignment including the right to bring legal proceedings and obtain any relief to which the undersigned would have been entitled if this assignment had not been made, in respect of any infringements of the undersigned's rights in relation to said inventions, Applications and Letters Patent which occur before or after the date of this assignment; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure

that the said Inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said Inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said Inventions, and to testify in any proceedings relating to said Inventions, patent applications, Letters Patent, and to bind our heirs, legal representatives, and assigns, promptly to communicate to said Assignee or its representatives any facts known to us relating to said Inventions, to testify in any interference or legal proceedings involving said Inventions, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors or assigns to secure patent or similar protection for said Inventions in all countries and to vest in the Assignee complete title to said Inventions and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

The undersigned hereby grant an authorized representative of Assignee 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.

This assignment is deemed to be effective at least as early as of September 6, 2012.

## NOTARY:

In Witness Whereof, I have executed this Worldwide Assignment on the 9 day of September, 2013.

Marc C. Albertsen  
Name of Inventor

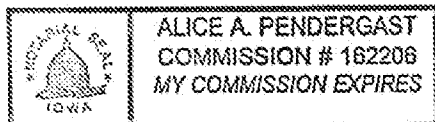
Marc C. Albertsen  
Signature of Inventor)

State of Iowa

County of Polk

I certify that I know or have satisfactory evidence that Marc C. Albertsen is the person who appeared before me and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated September 9, 2013



Signature of Notary Public Alice A. Pendergast

Printed Name Alice A. Pendergast

My appointment expires Sept 12, 2015

## NOTARY:

In Witness Whereof, I have executed this Worldwide Assignment on the 6<sup>th</sup> day of September, 2013.

Andrew Mark Cigan  
Name of Inventor

Andrew Mark Cigan  
Signature of Inventor)

State of Iowa

County of Polk

I certify that I know or have satisfactory evidence that Andrew Mark Cigan is the person who appeared before me and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated September 6, 2013



Signature of Notary Public Alice A. Pendergast

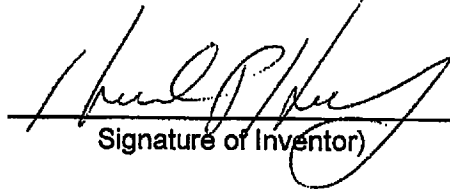
Printed Name Alice A. Pendergast

My appointment expires September 12, 2015

NOTARY:

In Witness Whereof, I have executed this Worldwide Assignment on the 16<sup>th</sup> day of September, 2013.

Howard P. Hershey  
Name of Inventor

  
Signature of Inventor)

State of Delaware

County of New Castle

I certify that I know or have satisfactory evidence that Howard P. Hershey is the person who appeared before me and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated September 16, 2013

Signature of  
Notary Public Carol A. Purse

Printed Name Carol A. Purse

My appointment expires Nov. 30, 2014

**CAROL A. PURSE**  
**NOTARY PUBLIC**  
**STATE OF DELAWARE**  
My commission expires Nov. 30, 2014

## NOTARY:

In Witness Whereof, I have executed this Worldwide Assignment on the 23<sup>rd</sup> day of September, 2013.

Michael W. Lassner  
Name of Inventor

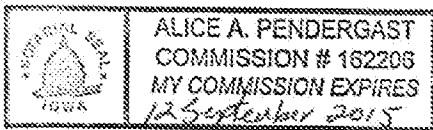
*Michael W. Lassner*  
Signature of Inventor)

State of Iowa

County of Polk

I certify that I know or have satisfactory evidence that Michael W. Lassner is the person who appeared before me and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated September 23, 2013



Signature of Notary Public *Alice A. Pendergast*

Printed Name Alice A. Pendergast

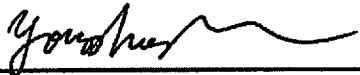
My appointment expires September 12, 2015



## WITNESSES:


In Witness Whereof, I have executed this Worldwide Assignment on the 13 day  
of Sept, 2013.

Yongzhong Wu  
Name of Inventor

  
Signature of Inventor)

13/9. 2013

Date

Signature of Witness: 

Print or Type Name: YANYAN ZHU

2013. 9. 13

Date

Signature of Witness: 

Print or Type Name: ZENGXIANG