

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT																								
NATURE OF CONVEYANCE:	ASSIGNMENT																								
CONVEYING PARTY DATA																									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>David C. Cerf</td> <td>04/04/2013</td> </tr> <tr> <td>James J. English</td> <td>04/04/2013</td> </tr> <tr> <td>Carol A. Hendrick</td> <td>04/10/2013</td> </tr> <tr> <td>Lu Liu</td> <td>04/03/2013</td> </tr> <tr> <td>Jarred K. Oral</td> <td>04/03/2013</td> </tr> <tr> <td>Phillip A. Patten</td> <td>04/08/2013</td> </tr> <tr> <td>Barbara A. Rosen</td> <td>04/09/2013</td> </tr> <tr> <td>Ute Schellenberger</td> <td>04/03/2013</td> </tr> <tr> <td>Ingrid A. Udranszky</td> <td>04/03/2013</td> </tr> <tr> <td>Jun-Zhi Wei</td> <td>04/08/2013</td> </tr> <tr> <td>Genhai Zhu</td> <td>04/08/2013</td> </tr> </tbody> </table>		Name	Execution Date	David C. Cerf	04/04/2013	James J. English	04/04/2013	Carol A. Hendrick	04/10/2013	Lu Liu	04/03/2013	Jarred K. Oral	04/03/2013	Phillip A. Patten	04/08/2013	Barbara A. Rosen	04/09/2013	Ute Schellenberger	04/03/2013	Ingrid A. Udranszky	04/03/2013	Jun-Zhi Wei	04/08/2013	Genhai Zhu	04/08/2013
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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:	13792861																								
CORRESPONDENCE DATA																									
Fax Number:	5155356883																								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																									
Phone:	515-535-4192																								
Email:	jamie.zortman@pioneer.com																								

CH \$40.00 13792861

Correspondent Name: S. Christopher Bauer
Address Line 1: 7250 NW 62nd Avenue
Address Line 2: P. O. Box 552
Address Line 4: Johnston, IOWA 50131-0552

ATTORNEY DOCKET NUMBER:	4208
NAME OF SUBMITTER:	S. Christopher Bauer
Signature:	/S. Christopher Bauer/
Date:	05/14/2013

Total Attachments: 13

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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, David C. Cerf, James J. English, Carol A. Hendrick, Lu Liu, Jarred K. Oral, Phillip A. Patten, Barbara A. Rosen, Ute Schellenberger, Ingrid A. Udranszky, Jun-Zhi Wei and Genhai Zhu at PIONEER HI-BRED INTERNATIONAL, INC., 7250 NW 62nd 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 62nd 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 **"NOVEL INSECTICIDAL PROTEINS AND METHODS FOR THEIR USE"**, 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. 13/792,861 filed March 11, 2013
 PCT Serial No. filed

which claim(s) priority as of filed July 2, 2012 Serial No. 61/667,039.

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 July 2, 2012.

In Witness Whereof, I have executed this Worldwide Assignment on the 4 day of April, 2013.

David C. Cerf
Name of Inventor

David C. Cerf
(Signature of Inventor)

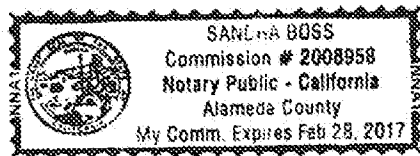
State of California)
County of Alameda)

On April 4, 2013 before me, Sandra Boss, Notary
(Name and Title of Officer)

personally appeared David C. Cerf, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Sandra Boss (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 4 day of April, 2013.

James J. English
Name of Inventor

[Signature]
(Signature of Inventor)

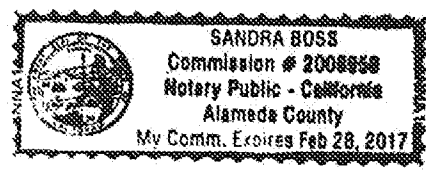
State of California)
County of Alameda }

On April 4, 2013 before me, Sandra Boss Notary
(Name and Title of Officer)

personally appeared James J. English, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Signature] (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 10 day of April, 2013.

Carol A. Hendrick
Name of Inventor

Carol A. Hendrick
Signature of Inventor)

State of IOWA)

County of POIK)

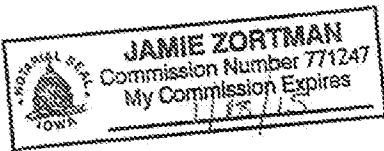
I certify that I know or have satisfactory evidence that Carol A. Hendrick is the person who appeared before me and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated April 10, 2013

Signature of Notary Public Jamie Zortman

Printed Name Jamie Zortman

My appointment expires 1/18/2015



In Witness Whereof, I have executed this Worldwide Assignment on the 3rd day of April, 2013.

Lu Liu
Name of Inventor

Lu Liu
(Signature of Inventor)

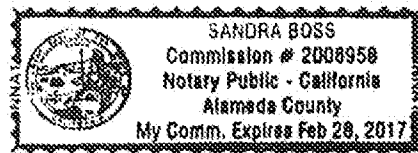
State of California)
County of Alameda)

On April 3, 2013 before me, *Sandra Boss, Notary*
(Name and Title of Officer)

personally appeared Lu Liu, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature *Sandra Boss* (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 3rd day of April, 2013.

Jarred K. Oral
Name of Inventor

[Signature]
(Signature of Inventor)

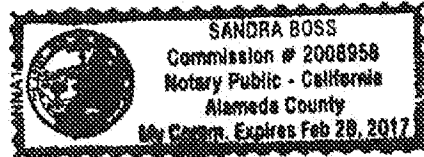
State of California)
County of Alameda }

On April 3, 2013 before me, Sandra Boss, Notary
(Name and Title of Officer)

personally appeared Jarred K. Oral, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within Instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Signature] (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 8th day of April, 2013.

Phillip A. Patten
Name of Inventor

[Signature]
(Signature of Inventor)

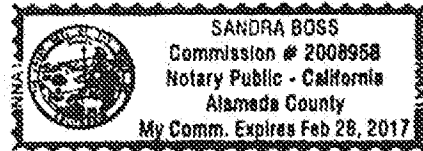
State of California)
County of Alameda)

On April 8, 2013 before me, Sandra Boss, Notary
(Name and Title of Officer)

personally appeared Phillip A. Patten, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

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WITNESS my hand and official seal.



Signature Sandra Boss (Seal)

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

Barbara A. Rosen
Name of Inventor

Barbara A. Rosen
(Signature of Inventor)

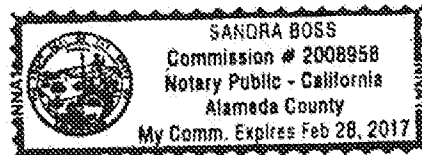
State of California)
County of Alameda)

On April 9, 2013 before me, Sandra Boss Notary
(Name and Title of Officer)

personally appeared Barbara A. Rosen, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

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WITNESS my hand and official seal.



Signature Sandra Boss (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 3rd day of April, 2013.

Ute Schellenberger
Name of Inventor

[Signature]
(Signature of Inventor)

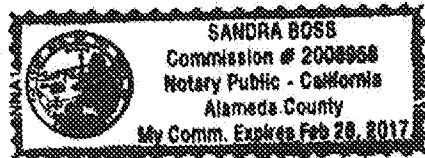
State of California)
County of Alameda)

On April 3, 2013 before me, Sandra Boss, Notary
(Name and Title of Officer)

personally appeared Ute Schellenberger, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Signature] (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 3 day of April, 2013.

Ingrid A. Udranszky
Name of Inventor

Ingrid A. Udranszky
(Signature of Inventor)

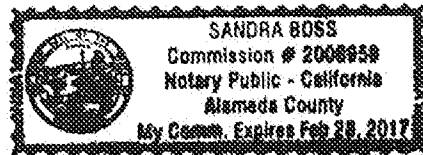
State of California)
County of Alameda)

On April 3, 2013 before me, Sandra Boss, Notary
(Name and Title of Officer)

personally appeared Ingrid A. Udranszky, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

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WITNESS my hand and official seal.



Signature Sandra Boss (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 8 day of April, 2013.

Jun-Zhi Wei
Name of Inventor

[Signature]
(Signature of Inventor)

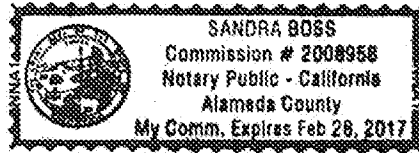
State of California)
County of Alameda)

On April 8, 2013 before me, Sandra Boss, Notary
(Name and Title of Officer)

personally appeared Jun-Zhi Wei, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Signature] (Seal)

In Witness Whereof, I have executed this Worldwide Assignment on the 08 day of 04, 2013.

Genhai Zhu
Name of Inventor

[Signature]
(Signature of Inventor)

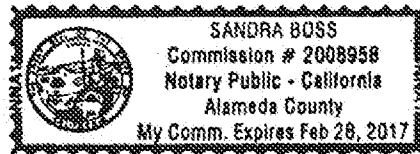
State of California)
County of Alameda)

On April 8, 2013 before me, Sandra Boss, Notary
(Name and Title of Officer)

personally appeared Genhai Zhu, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

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WITNESS my hand and official seal.



Signature [Signature] (Seal)