

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6673150

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARC ALBERTSEN	11/24/2015
MARK CIGAN	11/24/2015
MANJIT SINGH	12/02/2015
UTE BAUMANN	09/28/2014
ELISE TUCKER	09/26/2014
RYAN WHITFORD	09/26/2014
AUSTRALIAN CENTRE FOR PLANT FUNCTIONAL GENOMICS PTY LTD	05/26/2015

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
Name:	AUSTRALIAN CENTRE FOR PLANT FUNCTIONAL GENOMICS PTY LTD
Street Address:	UNIVERSITY OF ADELAIDE, WAITE CAMPUS
City:	HARTLEY GROVE
State/Country:	AUSTRALIA
Postal Code:	5064

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15514195

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

PATENT

Address Line 2: PO BOX 552
Address Line 4: JOHNSTON, IOWA 50131-0552

ATTORNEY DOCKET NUMBER: RTS20250D-US-PCT

NAME OF SUBMITTER: JANA E LEHMAN BELL

SIGNATURE: /Janae Lehman Bell/

DATE SIGNED: 04/23/2021

Total Attachments: 11

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WORLDWIDE ASSIGNMENT

I, the undersigned Marc Albertsen, hereby declare that I am an inventor of an invention entitled "WHEAT MS1 POLYNUCLEOTIDES, POLYPEPTIDES AND METHODS OF USE" the subject matter of which is described in the application for patent Attorney Docket No: RTS20250D-US-PSP2 as set forth in US Serial No. 62/187,591 filed 1 July 2015 and in PCT Serial No. PCT/US15/51214 filed 21 September 2015 US Serial No. 14/866,078 filed 25 September 2015 Argentina Serial No. P15 01 03092 filed 25 September 2015 each of which claims priority to U.S. Serial No. 62/056,365, filed 26 September 2014, previously assigned, and to US Serial No. 62/187,591, filed 1 July 2015.

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 Iowa in the United States of America and having its principal place of business at 7100 NW 62nd 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 aforesaid 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 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;

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.

In Witness Whereof, I have executed this Worldwide Assignment on the 24 day of November, 2015, and agree that this Worldwide Assignment shall be effective as of the earliest priority date for the aforesaid application(s) for Letters Patent.

Marc Albertsen
Name of Inventor

Marc P. Albertsen
Signature of Inventor

WORLDWIDE ASSIGNMENT

I, the undersigned Mark Cigan, hereby declare that I am an inventor of an invention entitled "WHEAT MS1 POLYNUCLEOTIDES, POLYPEPTIDES AND METHODS OF USE" the subject matter of which is described in the application for patent Attorney Docket No: RTS20250D-US-PSP2 as set forth in US Serial No. 62/187,591 filed 1 July 2015 and in PCT Serial No. PCT/US15/51214 filed 21 September 2015 US Serial No. 14/866,078 filed 25 September 2015 Argentina Serial No. P15 01 03092 filed 25 September 2015 each of which claims priority to U.S. Serial No. 62/056,365, filed 26 September 2014, previously assigned, and to US Serial No. 62/187,591, filed 1 July 2015.

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 Iowa in the United States of America and having its principal place of business at 7100 NW 62nd 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 aforesaid 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 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;

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.

In Witness Whereof, I have executed this Worldwide Assignment on the 24 day of November, 2015, and agree that this Worldwide Assignment shall be effective as of the earliest priority date for the aforesaid application(s) for Letters Patent.

Mark Cigan
Name of Inventor

Mark Cigan
Signature of Inventor

WORLDWIDE ASSIGNMENT

I, the undersigned Manjit Singh, hereby declare that I am an inventor of an invention entitled "WHEAT MS1 POLYNUCLEOTIDES, POLYPEPTIDES AND METHODS OF USE" the subject matter of which is described in the application for patent Attorney Docket No: RTS20250D-US-PSP2 as set forth in US Serial No. 62/187,591 filed 1 July 2015 and in PCT Serial No. PCT/US15/51214 filed 21 September 2015 US Serial No. 14/866,078 filed 25 September 2015 Argentina Serial No. P15 01 03092 filed 25 September 2015 each of which claims priority to U.S. Serial No. 62/056,365, filed 26 September 2014, previously assigned, and to US Serial No. 62/187,591, filed 1 July 2015.

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 Iowa in the United States of America and having its principal place of business at 7100 NW 62nd 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 aforesaid 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 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;

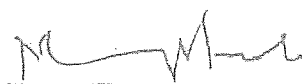
III. Represent, warrant and covenant that I have the full right and lawful authority to make this assignment, that such assigned right is not pre-dated by any grant, license, or other right heretofore given by me to any party other than the assignee hereto;

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.

In Witness Whereof, I have executed this Worldwide Assignment on the 2 day of DECEMBER, 2015 and agree that this Worldwide Assignment shall be effective as of the earliest priority date for the aforesaid application(s) for Letters Patent.

Manjit Singh
Name of Inventor


Signature of Inventor

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, Elise Tucker, Ryan Whitford and Ute Baumann, at ACPFG PTY LTD, University of Adelaide, Waite Campus, the undersigned inventors, have sold and assigned, and by these presents hereby sell and assign, as indicated below, unto

AUSTRALIAN CENTRE FOR PLANT FUNCTIONAL GENOMICS PTY LTD
University of Adelaide, Waite Campus
Hartley Grove, Urrbrae, South Australia 5064

its successors and assigns, my 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 "WHEAT MS1 POLYNUCLEOTIDES, POLYPEPTIDES AND METHODS OF USE", including all improvements to said invention ("Invention")

as set forth in US Serial No. 62/056365 filed September 26, 2014

which claim(s) priority to Serial No. _____, filed _____,

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, the location of that testimony to be in the country in which we reside or in the nearest country in which such testimony is legal should our country of residence prohibit such testimony, 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 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 26, 2014.

In Witness Whereof, I have executed this Worldwide Assignment on the 28 day
of September, 2014.


Ute Baumann
Name of Inventor


Signature of Inventor

WITNESSES:

28/9/2014

Date

Signature of Witness: 

Print or Type Name: Nick Collias

28/9/14

Date

Signature of Witness: 

Print or Type Name: TIM SUTTON

In Witness Whereof, I have executed this Worldwide Assignment on the 26th day of September, 2014.

Elise Tucker
Name of Inventor

E. Tucker
Signature of Inventor

WITNESSES:

26/9/14

Date

Signature of Witness: *N. Collins*

Print or Type Name: Nick Collins

26/9/14

Date

Signature of Witness: *Julie Hayes*

Print or Type Name: JULIE HAYES

In Witness Whereof, I have executed this Worldwide Assignment on the 26 day
of September, 2014.

Ryan Whitford
Name of Inventor

R. Whitford
Signature of Inventor

WITNESSES:

26/9/14

Date

Signature of Witness: *T. Sutton*

Print or Type Name: TIM SUTTON

26/9/14

Date

Signature of Witness: *N. Collins*

Print or Type Name: Nick Collins

ASSIGNMENT

THIS ASSIGNMENT, made by AUSTRALIAN CENTRE FOR PLANT FUNCTIONAL GENOMICS PTY LTD, a research company incorporated under the Australian Corporations Act (2001) having its primary location at Adelaide's Waite Campus, Hartley Grove, Urrbrae, South Australia 5064, Australia, hereinafter referred to as Assignor;

WITNESSETH: That,

WHEREAS, as shown by the records of the United States Patent and Trademark Office, Assignor has previously acquired an undivided interest in the entire right, title, and interest to United States patent application No. 62/056365, filed September 26, 2014, entitled "Wheat Ms1 Polynucleotides, Polypeptides, and Methods of Use," and to all corresponding patents and/or patent applications worldwide, and in and to the inventions represented thereby (all hereinafter referred to as the "Patents"); and,

WHEREAS, PIONEER HI-BRED INTERNATIONAL, INC., a corporation of the state of Iowa, having its principal place of business at 7100 N.W. 62nd Avenue, P.O. Box 1014, Johnston, IA 50131-1014, hereinafter referred to as Assignee, is desirous of acquiring Australian Centre for Plant Functional Genomics PTY LTD's undivided interest in the entire right, title, and interest, resulting in Pioneer Hi-Bred International, Inc. being the sole assignee and possessing full ownership in and to said Patents; and

WHEREAS, the parties have agreed to the Assignment hereinafter set forth;

NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the above Assignor has sold and by these presents does hereby sell, assign, transfer, and convey unto the said Assignee, its successors and assigns, its entire right, title, and interest in and to said Patents, and any and all continuations, continuations-in-part, or divisions thereof, and any and all Letters Patent or reissues, reexaminations, or extensions thereof which may be granted therefor or thereon, to the full end of the term for which said Letters Patent may be granted, together with the right to claim priority in all foreign countries in accordance with the International Convention; all rights corresponding to said Patents in foreign countries throughout the world; and all of its rights to sue for past infringement of said Patents worldwide, together with all claims for damage by reason of past infringement of said Patents, with the right to sue for, and collect the same for Assignee's own use and enjoyment; all to be held and enjoyed by said Assignee, its successors and assigns, as fully and

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[Handwritten Signature]
26 May 2015

Page 1 of 3

NOTARY PUBLIC
SOUTH AUSTRALIA

PATENT

[Handwritten Initials]

REEL: 056021 FRAME: 0389

entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made.

From time to time after the date hereof, at the request of either party hereto, and at the expense of the party so requesting, each of the parties hereto shall execute and deliver to such requesting party such documents and take such other action as such requesting party may reasonably request in order to consummate more effectively the transactions contemplated hereby.

The Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, it possesses full title to its interest in the Patents as earlier identified, and that it has the unencumbered right and authority to make this assignment.

IN WITNESS WHEREOF, the Assignor has caused this assignment to be executed this day of May, 2015.

Australian Centre for Plant Functional Genomics PTY LTD

By: *David Bruce Mitchell*

Print Name: DAVID BRUCE MITCHELL

Title: Chief Executive Officer

STATE OF :SOUTH AUSTRALIA

COUNTRY OF: AUSTRALIA

I, ALASTAIR MONFRIES DONALDSON, a Notary Public for said State of South Australia, do hereby certify that DAVID BRUCE MITCHELL personally came before me this day and acknowledged that he is Chief Executive Officer of Australian Centre for Plant Functional Genomics PTY LTD and acknowledged, on behalf of Australian Centre for Plant Functional Genomics PTY LTD, the due execution of the foregoing instrument.

Witness my hand and official seal, this the 26th day of May 2015.

Alastair Monfries Donaldson
ALASTAIR MONFRIES DONALDSON
NOTARY PUBLIC
SOUTH AUSTRALIA

Notary Public

DW FOX TUCKER
Level 14
100 King William Street
ADELAIDE
South Australia 5000

My commission is current.

IN WITNESS WHEREOF, the Assignee has caused this assignment to be executed this 4th day of June, 2015.

PIONEER HI-BRED INTERNATIONAL, INC.

(SEAL)

By: Marion T. Flattery

Print Name: Marion T. Flattery

Title: Assistant Secretary

STATE OF Iowa

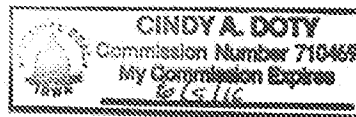
COUNTY OF Polk

I, Cindy A. Doty, a Notary Public for said County and State, do hereby certify that Marion T. Flattery personally came before me this day and acknowledged that he is Assistant Secretary of PIONEER HI-BRED INTERNATIONAL, INC. and acknowledged, on behalf of PIONEER HI-BRED INTERNATIONAL, INC., the due execution of the foregoing instrument.

Witness my hand and official seal, this the 4th day of June, 2015.

Notary Public

My commission expires: 6/5/16



PATENT