Electronic Version v1.1

Stylesheet Version v1.1

Property Type Number Application Number: 11833385 CORRESPONDENCE DATA Tax Number: (515)267-0556 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 5152220921 Email: patasweene@mchsi.com Correspondent Name: Patricia A. Sweeney Address Line 1: 1835 Pleasant St. Address Line 4: West Des Moines, IOWA 50265 ATTORNEY DOCKET NUMBER: 2597 Patricia A. Sweeney NAME OF SUBMITTER: Patricia A. Sweeney	SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
Name Execution Date Marc Albertsen 08/07/2007 Tim Fox 08/07/2007 Yongzhong Wu 08/07/2007 Keith Lowe 08/07/2007 Mary Trimnell 08/07/2007 Name: Ploneer Hi-Bred International, Inc. Street Address: Ploneer Hi-Bred International, Inc. Street Address: Ploneor Job NW 62nd Ave. Internal Address: PO Box 1014 City: Johnston State/Country: IOWA Postal Code: 50131 PROPERTY NUMBERS Total: 1 Italia3385 CORRESPONDENCE DATA Fax Number: (515)287-0556 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: S152220921 Ernal: paticia A. Sweeney Address Line 1: 18335 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: S152220921 Ernal: paticia A. Sweeney Address Line 1: 1835 Pleasant St. Address Line 4: West Des Moines, IOWA 50265 AttORNEY DOCKET NUMBER: 2597	NATURE OF CONVE	YANCE:	ASSIGNMENT	ASSIGNMENT	
Marc Albertsen 08/07/2007 Tim Fox 08/07/2007 Yongzhong Wu 08/07/2007 Keith Lowe 08/07/2007 Mary Trimmell 08/07/2007 RECEIVING PARTY DATA 08/07/2007 Name: Proneer Hi-Bred International, Inc. Street Address: 7100 NW 62nd Ave. Internal Address: PO Box 1014 City: Johnston State/Country: IOWA Postal Code: 50131 PROPERTY NUMBERS Total: 1 Itsa3385 CORRESPONDENCE DATA Fax Number: (515)/267-0556 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 515/220921 Email: patasweene@mchsi.com Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 515/220921 Email: patasweene@mchsi.com Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 515/220921 Email: patasweene@mchsi.com Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 1835 Pleasant St.	CONVEYING PARTY	Ź DATA			
Tim Fox 08/07/2007 Yongzhong Wu 08/07/2007 Keith Lowe 08/07/2007 Mary Trimnell 08/07/2007 Mary Trimnell 08/07/2007 RECEIVING PARTY DATA 08/07/2007 Receiving Party Data 08/07/2007 Street Address: 7100 NW 62nd Ave. Internal Address: PO Box 1014 City: Johnston State/Country: IOWA Postal Code: 50131 PROPERTY NUMBERS Total: 1 1183385 CORRESPONDENCE DATA Fax Number: 11833385 11833385 CORRESPONDENCE DATA Fax Number: Fax Number: (515)287-0556 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 515220921 Email: patasweene@mchsi.com Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 515220921 Email: patasweene@mchsi.com Correspondent Name: Paticia A. Sweeney Address Line 1: 1835 Pleasant St. Address Line 4: West Des Moines, IOWA 50265 <td></td> <td></td> <td>Name</td> <td>Execution Date</td> <td></td>			Name	Execution Date	
Yongzhong Wu 08/07/2007 Keith Lowe 08/07/2007 Mary Trimnell 08/07/2007 Mary Trimnell 08/07/2007 RECEIVING PARTY DATA 08/07/2007 Name: Pioneer Hi-Bred International, Inc. Street Address: 7100 NW 62nd Ave. Internal Address: PO Box 1014 City: Johnston State/Country: IOWA Postal Code: 50131 PROPERTY NUMBERS Total: 1 Its33385 CORRESPONDENCE DATA Fax Number: fax Number: (515)267-0556 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: \$152220921 Email: patasweene@(mchsi.com Correspondent Name: Paticia A. Sweeney Address Line 1: 1835 Pieasant St. Address Line 1: 1835 Pieasant St. Address Line 4: West Des Moines, IOWA 50265 AttroRNEY DOCKET NUMBER: 2597 NAME OF SUBMITTER: Patricia A. Sweeney	Marc Albertsen			08/07/2007	
Keith Lowe 08/07/2007 Mary Trimnell 08/07/2007 Mary Trimnell 08/07/2007 RECEIVING PARTY DATA 08/07/2007 Name: Pioneer Hi-Bred International, Inc. Street Address: 7100 NW 62nd Ave. Internal Address: PO Box 1014 City: Johnston State/Country: IOWA Postal Code: 50131 PROPERTY NUMBERS Total: 1	Tim Fox			08/07/2007	
Mary Trimnell 08/07/2007 RECEIVING PARTY DATA Name: Pioneer Hi-Bred International, Inc. Street Address: 7100 NW 62nd Ave. Internal Address: PO Box 1014 City: Johnston State/Country: IOWA Postal Code: 50131 PROPERTY NUMBERS Total: 1 Property Type Number Application Number: 11833385 CORRESPONDENCE DATA Fax Number: (615)267-0556 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 5152220921 Email: patasweene@mchsi.com Correspondent Name: Patricia A. Sweeney Address Line 1: 1835 Pieasant St. Address Line 4: West Des Moines, IOWA 50265 ATTORNEY DOCKET NUMBER: 2597 NAME OF SUBMITTER: Patricia A. Sweeney	Yongzhong Wu			08/07/2007	
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PATENT	Fax Number: <i>Correspondence will</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4:	(515)267- <i>be sent via US M</i> 51522209 pataswee e: Patricia A 1835 Plea West Des T NUMBER:	<i>fail when the fax attempt is unsuccess</i> 221 ne@mchsi.com . Sweeney asant St. Moines, IOWA 50265 2597	sful.	
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For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

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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 invention in "MSCA1 NUCLEOTIDE SEQUENCES IMPACTING PLANT MALE FERTILITY AND METHOD OF USING SAME"

as set forth in his United States Patent Application

executed concurrently herewith

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executed on

X Serial No. <u>11/833,385</u> filed August 3, 2007

said application for United States Letters Patent, including all prior provisional applications, divisional, renewal, substitute, continuation 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; 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 Assignce 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.

> PATENT REEL: 019802 FRAME: 0027

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 for recordation of this Assignment.

NAMES A	ND SIGNATURES OF INVENTORS	
Name: Marc Albertsen	Signature: Marce, albertran	Date: 7 Au, 2007
Name: Tim Fox	Signature:	Date:
Name: Mary Trimnell	Signature:	Date:
Name: Yongzhong Wu	Signature	Date:
Name: Keith Lowe	Signature:	Date
Name: Alice Pendergust	Signature Alies Andergast	Date: 7 August days 7
Name: A line Poolarmat	ND SIGNATURES OF WITNESSES	Date 7 Sugart server
Name: Toni Farms	Signature Jani James	Date: 7 august 07
Name:	Signature	Date:
Name:	Signature:	Date
Name	Signature:	Date:
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Name:	Signature	Date:
Name:	Signature:	Date:

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_____ executed concurrently herewith

____ executed on _____

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X Serial No. 11/833.385 filed August 3, 2007

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Name: Tim Fox	Signature:	Date: $\gamma/\gamma/\gamma$			
Name: Mary Trimnell	Signature:	Date:			
Name: Yongzhong Wu	Signature: forthere to	Date: \$/7/7			
Name: Keith Lowe	Signature: Herto h.	Date: 8/7/67			
NAMES AN Name: Refin Simeox	Signature:	Date: 877/07			
	D SIGNATURES OF WITNESSES.				
Name: A. Mack Cigan	Signature: A Mark Gy-	Date: 8/7/07			
Name:	Signature:	Date:			
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Name: Tim Fox	Signature:	Date:			
Name: Mary Trimnell	Signature: Mary June	D Date: p/7/07			
Name: Yongzhong Wu	Signature:	Date:			
Name: Keith Lowe	Signature:	Date:			
	S AND SIGNATURES OF WITNESSES	Date: 08-07-07 Le Date: 8-7-07 Date:			
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