

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Jennifer Ann Tarter</td> <td>03/07/2013</td> </tr> <tr> <td>Edwin Michael Grote</td> <td>03/04/2013</td> </tr> <tr> <td>Christopher Cole Rasmussen</td> <td>03/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jennifer Ann Tarter	03/07/2013	Edwin Michael Grote	03/04/2013	Christopher Cole Rasmussen	03/20/2013
Name	Execution Date								
Jennifer Ann Tarter	03/07/2013								
Edwin Michael Grote	03/04/2013								
Christopher Cole Rasmussen	03/20/2013								
RECEIVING PARTY DATA									
Name:	Pioneer Hi-Bred International, Inc.								
Street Address:	7250 NW 62nd Avenue								
Internal Address:	PO Box 552								
City:	Johnston								
State/Country:	IOWA								
Postal Code:	50131-0552								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12820267</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12820267				
Property Type	Number								
Application Number:	12820267								
CORRESPONDENCE DATA									
Fax Number:	5155356883								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	5155356297								
Email:	mary.altier@pioneer.com								
Correspondent Name:	Melinda S. Vander Velden								
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Address Line 4:	Johnston, IOWA 50131-0552								
ATTORNEY DOCKET NUMBER:	3422								
NAME OF SUBMITTER:	Melinda S. Vander Velden								
Total Attachments: 4 source=3422_Signed_Assignment#page1.tif source=3422_Signed_Assignment#page2.tif source=3422_Signed_Assignment#page3.tif source=3422_Signed_Assignment#page4.tif									

CH \$40.00 12820267

## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in fulfillment of a pre-existing obligation of assignment, each undersigned inventor has 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 invention in **Maize Variety Inbred PH133Z**.

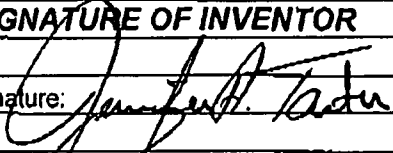
as set forth in this United States Patent Application

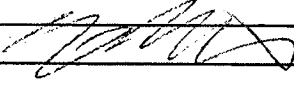
- executed concurrently herewith
- executed on
- Serial No. 12/820,267 filed June 22, 2010

said Application including all provisional, non-provisional, 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 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.

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.

NAME AND SIGNATURE OF INVENTOR		
Name: Jennifer Ann Tarter	Signature: 	Date: 7 March 2013

<b>NAME AND SIGNATURE OF INVENTOR</b>		
Name: <b>Edwin Michael Grote</b>	Signature: 	Date: 3/4/2013

**ASSIGNMENT**

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**CASE NO. 3422**

**PATENT**  
**REEL: 030050 FRAME: 0470**

NAME AND SIGNATURE OF INVENTOR		
Name: <b>Christopher Cole Rasmussen</b>	Signature: <i>Christopher Cole Rasmussen</i>	Date: <i>3-20-2013</i>

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CASE NO. 3422

RECORDED: 03/20/2013

PATENT  
REEL: 030050 FRAME: 0471