

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>Kanwarpal S. Dhugga</td><td>01/25/2007</td></tr><tr><td>Roberto Barreiro</td><td>01/25/2007</td></tr></tbody></table>		Name	Execution Date	Kanwarpal S. Dhugga	01/25/2007	Roberto Barreiro	01/25/2007				
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Kanwarpal S. Dhugga	01/25/2007										
Roberto Barreiro	01/25/2007										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Pioneer Hi-Bred International, Inc.</td></tr><tr><td>Street Address:</td><td>7100 NW 62nd Avenue, PO Box 1014</td></tr><tr><td>City:</td><td>Johnston</td></tr><tr><td>State/Country:</td><td>IOWA</td></tr><tr><td>Postal Code:</td><td>50131-1014</td></tr></table>		Name:	Pioneer Hi-Bred International, Inc.	Street Address:	7100 NW 62nd Avenue, PO Box 1014	City:	Johnston	State/Country:	IOWA	Postal Code:	50131-1014
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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>10713836</td></tr></tbody></table>		Property Type	Number	Application Number:	10713836						
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Application Number:	10713836										
CORRESPONDENCE DATA											
Fax Number: (515)334-6883 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 515-334-6845											
Email: Sheri.Biller@Pioneer.com											
Correspondent Name: Sheri Biller											
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Address Line 4: Johnston, IOWA 50131-0552											
ATTORNEY DOCKET NUMBER:	1520										
NAME OF SUBMITTER:	Kathryn K. Lappegard										
Total Attachments: 3 source=1520 Executed Assignment2#page1.tif source=1520 Executed Assignment2#page2.tif source=1520 Executed Assignment2#page3.tif											

CH \$40.00 10713836

PATENT

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REEL: 019366 FRAME: 0814

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 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 invention in **"Genes for Galactomannan Production in Plants and Methods of Use"**

as set forth in this United States Patent Application

- ☐ executed concurrently herewith
- ☒ executed on January 25, 2007
- ☒ Serial No. 10/713,836 filed November 14, 2003

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.

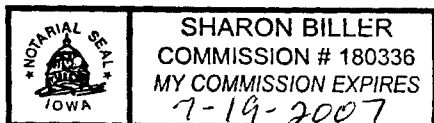
25 Jan. 2007
Date

Kanwarpal S. Dhugga
Kanwarpal S. Dhugga

State of Iowa)
County of Polk) ss.

I certify that I know or have satisfactory evidence that Kanwarpal S. Dhugga 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 1-25-2007



Signature of Notary Public Sharon Biller

Printed Name Sharon Biller

My appointment expires 7-19-2007

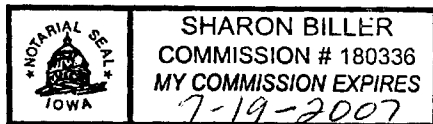
January 25th, 2007
Date


Roberto Barreiro

State of Iowa)
County of Polk) ss.

I certify that I know or have satisfactory evidence that Roberto Barreiro 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 1-25-2007



Signature of Notary Public Sharon Biller

Printed Name SHARON BILLER

My appointment expires 7-19-2007