DOCKET ID NO.: RECORD 700047433 10/08/2003	PATENTS ONLY U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
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1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
Jeffrey A. Thompson and Ervin H. Mueller	Name: <u>Pioneer Hi-Bred International, Inc.</u> Internal Address: <u>P.O. Box 1000</u>
Additional пате(s) of conveying party(ies) attached? Yes ⊠ I	· · · · · · · · · · · · · · · · · · ·
3. Nature of conveyance:	
☑ Assignment Merger Security Agreement Change of N	Street Address: <u>7100 NW 62nd Avenue</u>
Other	City: <u>Johnston</u> State: <u>IA</u> Zip: <u>50131-1000</u> Additional name(s) & address(es) attached? Yes ☑ No
Application number(s) or patent number(s);	
If this document is being filed together with a new ap	plication, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
60/353,078	, ,
10/272,277	
Additional	numbers attached? Yes ☑ No
5. Name and address of party to whom corresponderning document should be mailed:	pondence 6. Total number of applications and patents involved:
Name: <u>Lila A. T. Akrad. Req. No. 52,550</u> Internal Address:	7. Total fee (37 CFR 3.41)\$ 80.00 Enclosed - If amount is insufficient, please charge to Deposit Account 26-0084 Authorized to be charged to deposit account ☑ Previously submitted. If additional fees are required, please charge to Deposit Account No. 26-0084
Street Address: 801 Grand Avenue, Suite 3200	8. Deposit account number:
City: <u>Des Moines</u> State: <u>Iowa</u> Zip: <u>50309-2721</u>	(Attach duplicate copy of this page if paying by deposit account)
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Lila A. T. Akrad, Reg. No. 52,550 Name of Person Signing	ig information is true and correct and any attached copy is a true copy of NO 14/2003 Signature Date
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	FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks: F	Picase ro
Name of conveying party(les):	2. Nat 60/353, 078 1/29/2002. Na Inti 10/272, 277 10/15/2002
Jeffrey A. Thompson and Esvin H _r . Mueller	Na / /p. oa
	Inti 10/ 272 277 10/15/2002
Additional name(s) of conveying party(les) attached? Yes ENo	, -1-
3. Nature of conveyance:	1453
🗵 Assignment Merger	Str
Security Agreement Change of Name	
Other	Cit
Execution Date: January 17, 2002; January 14, 2002	Adı .
4. Application number(s) or patent number(s):	· · ·
If this document is being filed together with a new application, t	he execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
60/363,078	
10/272,277	
Additional numbers at	tached? Yes ENo
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PATENT

REEL: 014045 FRAME: 0658

CASE NO. 1456

ASSIGNMENT - WORLDWIDE

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

PIONEER HI-BRED INTERNATIONAL, INC.

800 Capital Square 400 Locust Street Des Moines, Iowa 50309

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

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X	executed concurrently herewith executed on	;	
	Serial Nofiled		
		i	

as set forth in his/her United States Patent Application

said application for United States Letters Patent, including all 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.

> PATENT REEL: 014045 FRAME: 0659

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.

NAM.	E AND SIGNATURE OF IN	VENTOR
Name: Ervin Henry Mueller	Signature:	Date:
	AND SIGNATURE OF WI	TNESSES
Name:	Signature:	Date:
Name:	Signature:	Date:

NAM	E AND SIGNATURE OF INVENTOR	
		Date: ///-/5-2
Name: Jeffrey A. Thompson	Signature: lefte, A Mayer	Date: 1/17/82
NAME	AND SIGNATURE OF WITNESSES	
1472412		
Name: JANE BLACKETER. Name: Brooke Hammerly	Signature: And Blacketes Signature: Brooke Hamman	Date: ////02
Name: Brooke Hammerly	Signature Brooke Planmany	Date: /////52

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PATENT REEL: 014045 FRAME: 0660 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.

NAM!	E AND SIGNATURE OF INVENTOR	
Name: Ervin Henry Mueller	Signature & Signature	Dale 14, 2002
	AND SIGNATURE OF WITNESSES	
Name: JANE BLACKSTER	Signature: phe A Thompse. Signature: White Backeto.	Date: 1/14/DZ

NAME	AND SIGNATURE OF IN	VENTOR
ame: Jeffery Allan Thompson	Signature:	. Date:
NAME.	AND SIGNATURE OF WI	INESSES
NAME .	AND SIGNATURE OF WIT	TNESSES Date:

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