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ASSIGNMENT RECORDATION FORM

05-28-1999

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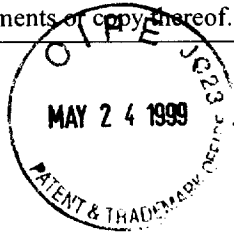


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To the Honorable Commissioner of Patents and Trademarks:
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Pramod Mahajan
Zhuang Zuo



2. Name and address of receiving party(ies):

Pioneer Hi-Bred International, Inc.
800 Capital Square, 400 Locust Street
Des Moines, Iowa 50309

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

 Assignment
 Merger
 Security Agreement
 Change of Name
 Other _____
Execution Date: May 14, 1999 and May 13, 1999

Additional name(s) & address(es) attached? Yes No

4. Application No. 09/236,995 Patent No. _____

If this document is being filed together with a new application, the execution date of the application is: _____

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

W. Murray Spruill
ALSTON & BIRD LLP
P. O. Drawer 34009
Charlotte, NC 28234-4009

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41) \$40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 16-0605

DO NOT USE THIS SPACE

9. Statement and signature
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

W. Murray Spruill, Reg. No. 32,943
Name of Person Signing

WMS
Signature

5/19/99
Date

Total number of pages including cover sheet, attachments and document: 4

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PATENT
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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 "**POLY ADP-RIBOSE POLYMERASE GENE AND ITS USES**"

as set forth in this United States Patent Application

- executed concurrently herewith
 executed on ____
 Application No. 09/236,995; filed January 26, 1999

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.

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.

May 14, 1999
Date

PB Mahajan
Pramod Mahajan

State of Iowa)

County of Polk)

ss.

I certify that I know or have satisfactory evidence that **Pramod Mahajan** 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 May 14, 1999

Signature of Notary Public Ginny Boesen

Printed Name Ginny Boesen

My appointment expires



5.13.99

Date

Zhuang Zuo

Zhuang Zuo

State of Iowa)

County of Polk)

ss.

I certify that I know or have satisfactory evidence that **Zhuang Zuo** 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 May 13, 1999

Signature of Notary Public *Ginny Boesen*

Printed Name Ginny Boesen

My appointment expires



RTA01/2062780v1