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FORM PTO-1595

RECORD



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

11/8/99

101200301

To the Honorable Commissioner of Patents and Trademarks, *to be attached to the original documents or copy thereof.*

1. Name of conveying party(ies):
Jonathan P. Duvick and Yogesh Kumar Sharma

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

2. Name and address of receiving party(ies)
Pioneer Hi-Bred International, Inc.
Corporate Intellectual Property
800 Capital Square
400 Locust
Des Moines, Iowa 50309

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: 11/2/99 and 10/22/99

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
09/391,741

B. Patent No.(s)

Additional numbers attached? Yes No

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

Karen Moon Bruce
Pioneer Hi-Bred International, Inc.
Corporate Intellectual Property
7100 N.W. 62nd Avenue
P.O. Box 1000
Johnston, Iowa 50131-1000

6. Total number of applications and patents involved: 1

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

8. Deposit account number: 16-1852.
(Attach a duplicate copy of this page if paying by deposit account)

11/10/1999 CVDRACHA 00000058 161852 09391741
02 EC:581 40.00 CH

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.

Karen Moon Bruce
Name of Person Signing

Karen Moon Bruce
Signature

November 3, 1999
Date

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

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 "**RAC-LIKE GENES AND METHODS OF USE**"

as set forth in this United States Patent Application

- executed concurrently herewith
 executed on _____
 Serial No. 09/391,741 filed September 8, 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.

11-2-99
Date

Jonathan P. Duvick
Jonathan P. Duvick

State of Iowa)

County of Polk)

ss.

I certify that I know or have satisfactory evidence that Jonathan P. Duvick 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 11-2-99

Signature of Notary Public *Ginny Boesen*

Printed Name Ginny Boesen

My appointment expires _____



10/22/99
Date

Yogesh Kumar Sharma
Yogesh Kumar Sharma

State of Missouri)
County of St Louis)

ss.

I certify that I know or have satisfactory evidence that Yogesh Kumar Sharma 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 10-22-99

Signature of Notary Public Martha J Tiepelman

Printed Name Martha B. Tiepelman

My appointment expires Aug 4 2003

