

ATTORNEY DOCKET NO. 0815

04-29-1998

FORM PTO-1595

RECORD



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and

100697119

original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Rudolf Jung
- 2) Larry R. Beach
- 3) Virginia M. Dress
- 4) A. Gururaj Rao
- 5) Jerome P. Ranch
- 6) David S. Ertl
- 7) Regina K. Higgins

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
7100 N.W. 62nd Avenue
P.O. Box 1000
Johnston, Iowa 50131-1000

RECEIVED
APR 20 1998
RECEIPT ACCOUNTING DIV

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

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other -----
- Merger
- Change of Name

Execution Date: 1) April 15, 1998; 2) April 15, 1998; 3) April 15, 1998; 4) April 15, 1998; 5) April 14, 1998; 6) April 15, 1998; 7) April 15, 1998

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)

09/020,716

B. Patent No.(s)

Additional numbers attached? Yes No

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

Marianne H. Michel
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

- 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)

04/29/1998 JMWTKINS 00000248 161852 09020716
Sale Ref: 00000248 DAN: 161852 09020716
01 FC-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.

Marianne H. Michel
Name of Person Signing

Marianne H. Michel
Signature

4-16-98
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

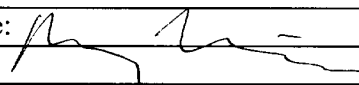
its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in "ALTERATION OF AMINO ACID COMPOSITIONS IN SEEDS"

as set forth in his United States Patent Application

- executed concurrently herewith
- executed on 4-15-98
- Serial No. 09/020,716 filed February 9, 1998

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.

NAME AND SIGNATURE OF INVENTOR		
Name: Rudolf Jung	Signature: 	Date: 04/15/98
NAME AND SIGNATURE OF WITNESSES		
Name: <i>Lori Schuster</i>	Signature: <i>Lori Schuster</i>	Date: 4-15-98
Name: <i>Sharon Biller</i>	Signature: <i>Sharon Biller</i>	Date: 4-15-98

NAME AND SIGNATURE OF INVENTOR		
Name: Larry R. Beach	Signature: <i>Larry R. Beach</i>	Date: 4/15/98
NAME AND SIGNATURE OF WITNESSES		
Name: <i>Lori Schuster</i>	Signature: <i>Lori Schuster</i>	Date: 4/15/98
Name: <i>Sharon A. Biller</i>	Signature: <i>Sharon A. Biller</i>	Date: 4-15-98

NAME AND SIGNATURE OF INVENTOR		
Name: Virginia M. Dress	Signature: <i>Virginia M. Dress</i>	Date: 4/15/98
NAME AND SIGNATURE OF WITNESSES		
Name: <i>Lori Schuster</i>	Signature: <i>Lori Schuster</i>	Date: 4/15/98
Name: <i>Sharon A. Biller</i>	Signature: <i>Sharon A. Biller</i>	Date: 4-15-98

NAME AND SIGNATURE OF INVENTOR		
Name: A. Gururaj Rao	Signature: <i>A. Gururaj Rao</i>	Date: 4/15/98
NAME AND SIGNATURE OF WITNESSES		
Name: <i>Alice A. Pendergast</i>	Signature: <i>Alice A. Pendergast</i>	Date: 4/15/98
Name: <i>Sharon A. Biller</i>	Signature: <i>Sharon A. Biller</i>	Date: 4-15-98

NAME AND SIGNATURE OF INVENTOR		
Name: Jerome P. Ranch	Signature: <i>Jerome P. Ranch</i>	Date: 4/4/98
NAME AND SIGNATURE OF WITNESSES		
Name: MICHAEL E. YATES	Signature: <i>Michael E. Yates</i>	Date: 4/14/98
Name: <i>Sharon A. Biller</i>	Signature: <i>Sharon A. Biller</i>	Date: 4-14-98

NAME AND SIGNATURE OF INVENTOR		
Name: David S. Ertl	Signature: <i>David S. Ertl</i>	Date: 4-15-98
NAME AND SIGNATURE OF WITNESSES		
Name: <i>Lori Schuster</i>	Signature: <i>Lori Schuster</i>	Date: 4/15/98
Name: <i>Sharon A. Biller</i>	Signature: <i>Sharon A. Biller</i>	Date: 4-15-98

NAME AND SIGNATURE OF INVENTOR		
Name: Regina K. Higgins	Signature: <i>Regina K. Higgins</i>	Date: 4-15-98
NAME AND SIGNATURE OF WITNESSES		
Name: <i>Lori Schuster</i>	Signature: <i>Lori Schuster</i>	Date: 4/15/98
Name: <i>Sharon A. Biller</i>	Signature: <i>Sharon A. Biller</i>	Date: 4-15-98

NAME AND SIGNATURE OF INVENTOR		
Name:	Signature:	Date:
NAME AND SIGNATURE OF WITNESSES		
Name:	Signature:	Date:
Name:	Signature:	Date:

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.