12-08-	2000 U.S. DEPARTMENT OF COMMERCE
	Patent and Trademark Office
To the Honorable Commissioner of 10154	3803 :tached original documents or copy thereof
1. Submission Type: //- 2-0 - 6 \ ■ Resubmission (Non-Recordation) Document ID# □ Correction of PTO Error Reel # Reel # Frame # □ Corrective Document Frame # Reel # Frame # □ Corrective Document Frame # Reel # Frame # □ Corrective Document Frame # Reel # Frame # □ Data Element in Question : * 4. Name of conveying party(ies): * *Allen, Stephen M. * *Kinney, Anthony J. * *Rafalski, J. Antoni * *Orozco, Emil M., Jr. * *Famodu, Omolayo O. * *Rendina, Alan R. * Additional name(s) of conveying party(ies) attached?: □ Yes * No * * Execution Date: * * 08/25/2000 * * 08/25/2000 * * 08/25/2000 *	 2. Conveyance Type: Assignment Security Agreement License Change of Name Merger Other
 5. Application number(s) or patent number(s): If this document is being filed together with a new applic A. Patent Application No.(s): 09/614,912 Docket No.: BB-1378 US NA 	B. Patent No.(s):
6. Correspondent Name & Address:	attached: □ Yes ■ No 7. Total number of applications and patents involved: 1
6. Correspondent Name & Address: THOMAS M. RIZZO E. I. DU PONT DE NEMOURS AND COMPANY LEGAL-PATENTS 1007 MARKET STREET WILMINGTON, DELAWARE 19898	 7. Total number of applications and patents involved. <u>1</u> 8. Total fee (37 CFR 3.41)
	SE THIS SPACE
 Statement and signature. To the best of my knowledge and belief, the foregoing of the original document. CAROL REEDER 	information is true and correct and any attached copy is a true copy <u>C</u> <u>C</u> <u>Signature</u> <u>Date</u>
SENIOR LEGAL CLERK	
12/07/2000 MTHAII 00000290 041928 09614912 01 FC:581 40.00 CH	Total number of pages comprising cover sheet:

PATENT REEL: 011304 FRAME: 0154 5. Name and address of receiving party(ies) (coninuted):

PIONEER HI-BRED INTERNATIONAL, INC. 7300 N.W. 62ND AVENUE P.O. BOX 1004 JOHNSTON, IOWA 50131-1004

> PATENT REEL: 011304 FRAME: 0155

ASSIGNMENT

We, the undersigned

STEPHEN M. ALLEN, ANTHONY J. KINNEY, J. ANTONI RAFALSKI, EMIL M. OROZCO, JR., GUO-HUA MIAO, OMOLAYO O. FAMODU, JIAN-MING LEE, KARIN N. LOHMAN, ALAN R. RENDINA, HAJIME SAKAI, ZUDE WENG, PERRY G. CAIMI, YIWEN FANG, JENNIE BIH-JIEN SHEN, ILHAM L. ZOUGHI, SHAWN L. ANDERSON, JINRUI SHI, GUIHUA LU, TIMOTHY G. HELENTJARIS, and CHUN PING LI

Hereby declare that

We are the true and first inventors of an invention entitled

PLANT METABOLISM GENES

(which is identified as Case Number **BB1378 US NA**) and which is disclosed in an application for Letters Patent in the United States of America., executed the

For valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby:

I. Sell, assign, and transfer unto E. I. du Pont de Nemours and Company, a corporation organized and existing under the laws of the State of Delaware in the United States of America and having its principal place of business at Wilmington, Delaware; or Pioneer Hi-Bred International, Inc., a corporation organized and existing under the laws of the State of Iowa in the United States of America and having its principal place of business at Des Moines, Iowa, (as indicated below) hereinafter referred to as the assignees, (A) the sole and entire right, title, and interest in and to: (1) the aforesaid application for Letters Patent, (2) any priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention of Industrial Property and any other treaty or understanding for intellectual property for any and all member countries of the aforesaid application for Letters Patent, (4) any and all applications for Letters Patent for any such inventions in any country whatsoever, (5) any and all patents for any such inventions in any country whatsoever, (5) any and all patents for any such inventions under the aforesaid International Convention or other treaty or understanding, (3) have said patents granted in its name or ours, and (4) enforce said patents and to sue for and recover profits and damages for any and all infringements thereof whether past or future; and

II. Agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said rights, to testify in any legal proceeding respecting said rights, to execute all applications, papers or instruments necessary or required by said assignees, its successors, assigns and legal representatives, to carry into effect any of the provisions of this instrument, and generally to do everything possible to aid said assignees, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

We further authorize our attorney/patent agent to insert below^{*} the application number and filing date of the aforesaid United States application now identified as Case Number **BB1378 US NA** after the same shall have been made known to him/her by the United States Patent Office.

E. I. du Pont de Nemours and Company

њs.) STEPHEN M. ALLEN 8127 DATE: (L.S.) J. ANTONI RAFALSKI 8-25-00 DATE: (L.S.) **GUO-HUA MIAO**

DATE	:		

E. L. du Pont de Nemours and Company		
(L.S.)		
ANTHONY J. KINNEY,		
DATE: 14 SEPTOU		
Sman (L.S.)		
EMIL M. OROZCO, JR.		
DATE: ALLY Z4TH, 2000		
Omolayo O. Famody(L.S.)		
OMOLAYO'Q. FAMODU		
DATE: 8/25/00		

PATENT REEL: 011304 FRAME: 0156

E. I. du Pont de Nemours and Company

		E. I. du Pont de Nemours and C	ompany
JIAN-MING LEE	(L.S.)		
DATE:		KARIN N. LOHMAN	
ALAN R. RENDINA DATE:	(L.S.)	DATE:	
DATE: 8/29/00		HAJIME SAKAI DATE:	
ZUDE WENG	(L.S.)		
DATE:		PERRY G. CAIMI DATE:	
YIWEN FANG	(L.S.)		
DATE:		JENNIE BIH-JIEN SHEN DATE:	_(L.S.)
ILHAM L. ZOUGHI	(L.S.)		
DATE:		SHAWN L. ANDERSON DATE:	
Pioneer Hi-Bred International, I	пс.		
		Pioneer Hi-Bred International, I	nc.
JINRUI SHI			_(L.S.)
DATE:		GUIHUA LU DATE:	
TIMOTHY G. HELENTJARIS	_(L.S.)		
IIWUITI G. TELENIJAKIS			_(L.S.)

TIMOTHY G. HELENTJARIS

CHUN PING LI DATE:_____

Telephone: 302-302-892-7756 776 P Facsimile: 302-302-892-7949 /03 L

*The application referred to above as Case Number **BB1378 US NA** was filed in the United States Patent Office on

July 12, 2000, and was given Application	
This insertion made by me this day of	Octaber, 2000.
212	KATHLEEN W. GEIGER Thomas M. R. 220
	ATTORNEY/PATENT AGENT FOR APPLICANTS
	Registration No.: $35,880 41, a22$

PATENT REEL: 011304 FRAME: 0157

RECORDED: 11/20/2000