

HEET

To the Honorable Commissioner 10154	attached original documents or copy thereof
1. Submission Type:	2. Conveyance Type:
New       - 20 - 0   Resubmission (Non-Recordation)   Document ID#   Correction of PTO Error   Frame #   Corrective Document   Frame #   Data Element in Question :	License
4. Name of conveying party(ies):	5. Name and address of receiving party(ies):
<sup>1</sup> Zoughi, Ilham L.	E. I. DU PONT DE NEMOURS AND COMPANY LEGAL PATENTS 1007 MARKET STREET WILMINGTON, DELAWARE 19898
Additional name(s) of conveying party(ies) attached?:   Yes No	Additional name(s) & address(es) attached? ■ Yes □ No
Execution Date: 109/29/2000	
5. Application number(s) or patent number(s):	
If this document is being filed together with a new app	olication, the execution date of the application is:
A. Patent Application No.(s): 09/614,912  Docket No.: BB-1378 US NA	B. Patent No.(s): ers attached: □ Yes ■ No
6. Correspondent Name & Address:	7. Total number of applications and patents involved: 1
THOMAS M. RIZZO E. I. DU PONT DE NEMOURS AND COMPANY LEGAL-PATENTS 1007 MARKET STREET WILMINGTON, DELAWARE 19898	8. Total fee (37 CFR 3.41)
	Deposit account number: 04-1926  (Attach duplicate copy of this page if paying by deposit account)
DO NOT	USE THIS SPACE
10. Statement and signature.  To the best of my knowledge and belief, the foregoin of the original document.  CAROL REEDER  SENIOR LEGAL CLERK	ng information is true and correct and any attached copy is a true copy  Signature  Date
/0 /2000 MTHAI1 00000288 041928 09614912	Total number of pages comprising cover sheet: 2

PATENT REEL: 011304 FRAME: 0318 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: 0319

## 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 for the Protection of Industrial Property and any other treaty or understanding for intellectual property for any and all member countries of the aforesaid International Convention or other treaty or understanding, (3) 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; and (B) the sole right to (1) file such applications in its name or ours, (2) file such applications 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

•	E. I. du Pont de Nemours and	s and Company	
(L.S.)		(L.S.)	
·	ANTHONY J. KINNEY DATE:		
(L.S.)			
		(L.S.)	
	EMIL M. OROZCO, JR. DATE:		
(L.S.)		<del></del>	
		(L.S.)	
	OMOLAYO O. FAMODU DATE:		
	(L.S.)	ANTHONY J. KINNEY DATE:  [L.S.)  EMIL M. OROZCO, JR. DATE:  OMOLAYO O. FAMODU	

PATENT REEL: 011304 FRAME: 0320

JIAN-MING LEE		E. I. du Pont de Nemours and Comp	any
JIAN-MING LEE	(L.S.)	•	•
DATE:		KARIN N. LOHMAN	.S.)
	$(\mathbf{I}, \mathbf{C})$	DATE:	
ALAN R. RENDINA	(L.S.)	(L.	2)
DATE:		HAJIME SAKAI DATE:	.0.,
ZUDE WENG	(L.S.)		
ZUDE WENG		(L.	.S.)
DATE:	. <u></u>	PERRY G. CAIMI DATE:	
	(L.S.)		
YIWEN FANG DATE:		JENNIE BIH-JIEN SHEN	.S.)
	(L.S.)	DATE:	
ILHAM L. ZOUGHI	(L.S.)	(L.	s)
ILHAM L. ZOUGHI DATE: September 29th.	2000	SHAWN L. ANDERSON DATE:	,
Diamage Hi Dred Internations			
		Pioneer Hi-Bred International, Inc.	
Pioneer Hi-Bred Internationa  JINRUI SHI		(L.	.S.)
	(L.S.)	GUIHUA LU	. <b>S</b> .)
JINRUI SHI	(L.S.)	(L.	. <b>S</b> .)
JINRUI SHI DATE:	(L.S.)	GUIHUA LU DATE:(L.	
JINRUI SHI	(L.S.)	GUIHUA LU DATE:	

**RECORDED: 11/20/2000** 

PATENT REEL: 011304 FRAME: 0321

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