

12-08-2000

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To the Honorable Commissioner of

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- ☒ New 11-20-00
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4. Name of conveying party(ies):

- ¹Allen, Stephen M.
- ²Miao, Guo-Hua
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- ⁴Lu, Guihua
- ⁵Helentjaris, Timothy G.
- ⁶Li, Chun Ping

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

Execution Date: ¹09/18/2000 ²09/07/2000

³08/30/2000 ⁴09/06/2000

⁵08/07/2000 ⁶09/01/2000

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

E. I. DU PONT DE NEMOURS AND COMPANY
LEGAL PATENTS
1007 MARKET STREET
WILMINGTON, DELAWARE 19898

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

5. 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): **09/614,912**

B. Patent No.(s):

Docket No.: **BB-1378 US NA**Additional numbers attached: ☐ Yes ☒ No

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: 1

8. Total fee (37 CFR 3.41) \$40.00

- ☐ Enclosed (Check No.: _____)
- ☒ Authorized to be charged to deposit account

9. Deposit account number: 04-1928

(Attach duplicate copy of this page if paying by deposit account)

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10. 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.

CAROL REEDER

SENIOR LEGAL CLERK

Carol Reeder

Signature

11/17/2000

Date

Total number of pages comprising cover sheet: 2

PATENT
REEL: 011304 FRAME: 0102

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**

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 our inventions, whether joint or sole, disclosed in 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; 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

 (L.S.)

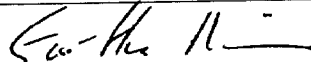
STEPHEN M. ALLEN

DATE: 9/18/00

(L.S.)

J. ANTONI RAFALSKI

DATE: _____

 (L.S.)

GUO-HUA MIAO

DATE: 9/7/00

E. I. du Pont de Nemours and Company

(L.S.)

ANTHONY J. KINNEY

DATE: _____

(L.S.)

EMIL M. OROZCO, JR.

DATE: _____

(L.S.)

OMOLAYO O. FAMODU

DATE: _____

E. I. du Pont de Nemours and Company

_____(L.S.)

JIAN-MING LEE

DATE: _____

_____(L.S.)

ALAN R. RENDINA

DATE: _____

_____(L.S.)

ZUDE WENG

DATE: _____

_____(L.S.)

YIWEN FANG

DATE: _____

_____(L.S.)

ILHAM L. ZOUGHI

DATE: _____

E. I. du Pont de Nemours and Company

_____(L.S.)

KARIN N. LOHMAN

DATE: _____

_____(L.S.)

HAJIME SAKAI

DATE: _____

_____(L.S.)

PERRY G. CAIMI

DATE: _____

_____(L.S.)

JENNIE BIH-JIEN SHEN

DATE: _____

_____(L.S.)

SHAWN L. ANDERSON

DATE: _____

Pioneer Hi-Bred International, Inc.

Jin Rui Shi _____(L.S.)

JINRUI SHI

DATE: 8-30-00

Timothy G. Helentjaris _____(L.S.)

TIMOTHY G. HELENTJARIS

DATE: 8/7/00

Pioneer Hi-Bred International, Inc.

Guihua Lu _____(L.S.)

GUIHUA LU

DATE: 9/6/00

Chun Ping Li _____(L.S.)

CHUN PING LI

DATE: 7-21-00

*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 No. 09/614,912.

This insertion made by me this 27th day of October, 2000.

Thomas M. Rizzo
KATHLEEN W. GEIGER *Thomas M. Rizzo*
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