

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>BRIAN MCGONIGLE</td> <td>07/21/2009</td> </tr> <tr> <td>ANTHONY J. KINNEY</td> <td>07/31/2009</td> </tr> <tr> <td>HOWARD GLENN DAMUDE</td> <td>07/21/2009</td> </tr> </tbody> </table>		Name	Execution Date	BRIAN MCGONIGLE	07/21/2009	ANTHONY J. KINNEY	07/31/2009	HOWARD GLENN DAMUDE	07/21/2009				
Name	Execution Date												
BRIAN MCGONIGLE	07/21/2009												
ANTHONY J. KINNEY	07/31/2009												
HOWARD GLENN DAMUDE	07/21/2009												
<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>E. I. DU PONT DE NEMOURS AND COMPANY</td> </tr> <tr> <td>Street Address:</td> <td>4417 LANCASTER PIKE</td> </tr> <tr> <td>Internal Address:</td> <td>BARLEY MILL PLAZA 25</td> </tr> <tr> <td>City:</td> <td>WILMINGTON</td> </tr> <tr> <td>State/Country:</td> <td>DELAWARE</td> </tr> <tr> <td>Postal Code:</td> <td>19809</td> </tr> </table>		Name:	E. I. DU PONT DE NEMOURS AND COMPANY	Street Address:	4417 LANCASTER PIKE	Internal Address:	BARLEY MILL PLAZA 25	City:	WILMINGTON	State/Country:	DELAWARE	Postal Code:	19809
Name:	E. I. DU PONT DE NEMOURS AND COMPANY												
Street Address:	4417 LANCASTER PIKE												
Internal Address:	BARLEY MILL PLAZA 25												
City:	WILMINGTON												
State/Country:	DELAWARE												
Postal Code:	19809												
PROPERTY NUMBERS Total: 1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12487768</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12487768								
Property Type	Number												
Application Number:	12487768												
<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (302)355-3982</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 302-992-2973</p> <p>Email: CAROL.A.REEDER@USA.DUPONT.COM</p> <p>Correspondent Name: BRADLEY KURTZ</p> <p>Address Line 1: 4417 LANCASTER PIKE</p> <p>Address Line 2: BARLEY MILL PLAZA 25</p> <p>Address Line 4: WILMINGTON, DELAWARE 19809</p>													
ATTORNEY DOCKET NUMBER:	BB1620USNA												
NAME OF SUBMITTER:	MARY BETH WROTEN												

CH \$40.00 12487768

500936004

**PATENT**  
**REEL: 023095 FRAME: 0059**

Total Attachments: 3

source=BB1620USNA#page1.tif

source=BB1620USNA#page2.tif

source=BB1620USNA#page3.tif

**ASSIGNMENT**

We, the undersigned

BRIAN MCGONIGLE, ANTHONY J. KINNEY, HOWARD GLENN DAMUDE

Hereby declare that

We are the true and first inventors of an invention entitled

NOVEL DELTA-9 FATTY ACID ELONGASE GENES AND THEIR USE IN MAKING POLYUNSATURATED  
FATTY ACIDS

which is disclosed in the United States Patent Application No. 12/487768 filed on June 19, 2009 and which is identified as Case Number BB1620USNA.

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, hereinafter referred to as the assignee, (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 assignee, 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 assignee, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

Brian McGonigle (L.S.)  
BRIAN MCGONIGLE  
DATE: Aug 21, 2009

\_\_\_\_\_  
HOWARD GLENN DAMUDE  
DATE: \_\_\_\_\_

\_\_\_\_\_  
ANTHONY J. KINNEY  
DATE: \_\_\_\_\_

**ASSIGNMENT**

We, the undersigned

BRIAN MCGONIGLE, ANTHONY J. KINNEY, HOWARD GLENN DAMUDE

Hereby declare that

We are the true and first inventors of an invention entitled

NOVEL DELTA-9 FATTY ACID ELONGASE GENES AND THEIR USE IN MAKING POLYUNSATURATED  
FATTY ACIDS

which is disclosed in the United States Patent Application No. 12/487768 filed on June 19, 2009 and which is identified as Case Number BB1620USNA.

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, hereinafter referred to as the assignee, (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 assignee, 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 assignee, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

\_\_\_\_\_(L.S.)  
BRIAN MCGONIGLE  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
HOWARD GLENN DAMUDE  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
ANTHONY J. KINNEY  
DATE: 31 July 2009

**ASSIGNMENT**

We, the undersigned

BRIAN MCGONIGLE, ANTHONY J. KINNEY, HOWARD GLENN DAMUDE

Hereby declare that

We are the true and first inventors of an invention entitled

**NOVEL DELTA-9 FATTY ACID ELONGASE GENES AND THEIR USE IN MAKING POLYUNSATURATED FATTY ACIDS**

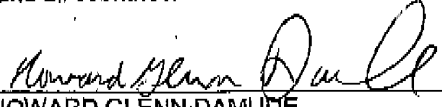
which is disclosed in the United States Patent Application No. 12/487768 filed on June 19, 2009 and which is identified as Case Number BB1620USNA.

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, hereinafter referred to as the assignee, (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 assignee, 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 assignee, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

\_\_\_\_\_(L.S.)  
BRIAN MCGONIGLE  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
HOWARD GLENN DAMUDE  
DATE: 7/21/09

\_\_\_\_\_(L.S.)  
ANTHONY J. KINNEY  
DATE: \_\_\_\_\_