

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | |
|--|--------------------------------------|----------------|---------------------|------------|---------------|------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | |
| CONVEYING PARTY DATA | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>ZHIXIONG XUE</td><td>06/29/2007</td></tr><tr><td>QUINN QUN ZHU</td><td>06/29/2007</td></tr></tbody></table> | Name | Execution Date | ZHIXIONG XUE | 06/29/2007 | QUINN QUN ZHU | 06/29/2007 | |
| Name | Execution Date | | | | | | |
| ZHIXIONG XUE | 06/29/2007 | | | | | | |
| QUINN QUN ZHU | 06/29/2007 | | | | | | |
| RECEIVING PARTY DATA | | | | | | | |
| Name: | E. I. DU PONT DE NEMOURS AND COMPANY | | | | | | |
| Street Address: | 1007 MARKET STREET | | | | | | |
| Internal Address: | LEGAL-PATENTS | | | | | | |
| City: | WILMINGTON | | | | | | |
| State/Country: | DELAWARE | | | | | | |
| Postal Code: | 19898 | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11787772</td></tr></tbody></table> | Property Type | Number | Application Number: | 11787772 | | | |
| Property Type | Number | | | | | | |
| Application Number: | 11787772 | | | | | | |
| CORRESPONDENCE DATA | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | CL3479USNA | | | | | | |
| NAME OF SUBMITTER: | CAROL REEDER | | | | | | |
| Total Attachments: 2 source=CL3479USNA#page1.tif | | | | | | | |

CH \$40.00 11787772

500335898

PATENT
REEL: 019703 FRAME: 0834

ASSIGNMENT

We, the undersigned

ZHIXIONG XUE, QUINN QUN ZHU

Hereby declare that

We are the true and first inventors of an invention entitled

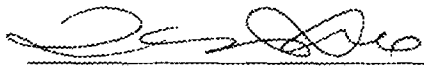
**DELTA 17 DESATURASES AND THEIR USE IN MAKING
POLYUNSATURATED FATTY ACIDS**

and which is disclosed in United States Patent Application No. 11/787,772 filed on April 18, 2007 (and which is identified as Case Number **CL3479USNA**).

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 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) to 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.)
ZHIXIONG XUE
DATE: 6/29/2007

(L.S.)
QUINN QUN ZHU
DATE: _____

ASSIGNMENT

We, the undersigned

ZHIXIONG XUE, QUINN QUN ZHU

Hereby declare that

We are the true and first inventors of an invention entitled

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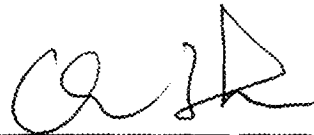
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II. Agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said rights, to testify in any legal proceeding respecting said rights, to execute all applications, 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.)

ZHIXIONG XUE

DATE: _____



_____(L.S.)

QUINN QUN ZHU

DATE: 6-29-07

PATENT

RECORDED: 08/16/2007

REEL: 019703 FRAME: 0837