

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>PERRY G. CAIMI</td> <td>01/22/2010</td> </tr> <tr> <td>MARK EMPTAGE</td> <td>01/22/2010</td> </tr> <tr> <td>PAUL V. VIITANEN</td> <td>01/25/2010</td> </tr> <tr> <td>XU LI</td> <td>02/01/2010</td> </tr> </tbody> </table>		Name	Execution Date	PERRY G. CAIMI	01/22/2010	MARK EMPTAGE	01/22/2010	PAUL V. VIITANEN	01/25/2010	XU LI	02/01/2010		
Name	Execution Date												
PERRY G. CAIMI	01/22/2010												
MARK EMPTAGE	01/22/2010												
PAUL V. VIITANEN	01/25/2010												
XU LI	02/01/2010												
<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>E. I. DU PONT DE NEMOURS AND COMPANY</td> </tr> <tr> <td><b>Street Address:</b></td> <td>4417 LANCASTER PIKE</td> </tr> <tr> <td><b>Internal Address:</b></td> <td>LEGAL PRC; BMP25</td> </tr> <tr> <td><b>City:</b></td> <td>WILMINGTON</td> </tr> <tr> <td><b>State/Country:</b></td> <td>DELAWARE</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>19805</td> </tr> </table>		<b>Name:</b>	E. I. DU PONT DE NEMOURS AND COMPANY	<b>Street Address:</b>	4417 LANCASTER PIKE	<b>Internal Address:</b>	LEGAL PRC; BMP25	<b>City:</b>	WILMINGTON	<b>State/Country:</b>	DELAWARE	<b>Postal Code:</b>	19805
<b>Name:</b>	E. I. DU PONT DE NEMOURS AND COMPANY												
<b>Street Address:</b>	4417 LANCASTER PIKE												
<b>Internal Address:</b>	LEGAL PRC; BMP25												
<b>City:</b>	WILMINGTON												
<b>State/Country:</b>	DELAWARE												
<b>Postal Code:</b>	19805												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td><b>Application Number:</b></td> <td>12641642</td> </tr> </tbody> </table>		Property Type	Number	<b>Application Number:</b>	12641642								
Property Type	Number												
<b>Application Number:</b>	12641642												
<b>CORRESPONDENCE DATA</b>													
<p><b>Fax Number:</b> (302)355-3982</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p><b>Phone:</b> 3029924765</p> <p><b>Email:</b> COLLEEN.A.TAYLOR@USA.DUPONT.COM</p> <p><b>Correspondent Name:</b> JOAN T. ODELL</p> <p><b>Address Line 1:</b> 4417 LANCASTER PIKE</p> <p><b>Address Line 2:</b> LEGAL PRC; BMP25</p> <p><b>Address Line 4:</b> WILMINGTON, DELAWARE 19805</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	CL4364USNA												
<b>NAME OF SUBMITTER:</b>	COLLEEN A. TAYLOR												

CH \$40.00 12641642

Total Attachments: 2

source=20101108\_CL4364USNA\_ExecutedAssignment#page1.tif

source=20101108\_CL4364USNA\_ExecutedAssignment#page2.tif

**PATENT**

**REEL: 025320 FRAME: 0083**

# ASSIGNMENT

We, the undersigned

**PERRY G. CAIMI, MARK EMPTAGE, XU LI, PAUL V. VIITANEN,  
YAT-CHEN CHOU, MARY ANN FRANDEN, MIN ZHANG**

Hereby declare that

We are the true and first inventors of an invention entitled


## **ZYMOMONAS WITH IMPROVED XYLOSE UTILIZATION IN STRESS CONDITIONS**

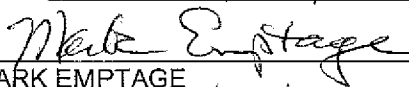
which is disclosed in the United States Patent Application No. 12/641642 filed on **December 18, 2009** and which is identified as Case Number **CL4364USNA**.

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.)  
PERRY G. CAIMI  
DATE: January 22, 2010

  
\_\_\_\_\_(L.S.)  
MARK EMPTAGE  
DATE: 1/22/2010

\_\_\_\_\_(L.S.)  
XU LI  
DATE: \_\_\_\_\_

  
\_\_\_\_\_(L.S.)  
PAUL V. VIITANEN  
DATE: 1/25/10

\_\_\_\_\_(L.S.)  
YAT-CHEN CHOU  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
MARY ANN FRANDEN  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
MIN ZHANG  
DATE: \_\_\_\_\_

**PATENT**

**REEL: 025320 FRAME: 0084**

## ASSIGNMENT

We, the undersigned

**PERRY G. CAIMI, MARK EMPTAGE, XU LI, PAUL V. VIITANEN,  
YAT-CHEN CHOU, MARY ANN FRANDEN, MIN ZHANG**

Hereby declare that

We are the true and first inventors of an invention entitled

### **ZYMOMONAS WITH IMPROVED XYLOSE UTILIZATION IN STRESS CONDITIONS**

which is disclosed in the United States Patent Application No. **12/641642** filed on **December 18, 2009** and which is identified as Case Number **CL4364USNA**.

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.)  
PERRY G. CAIMI  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
YAT-CHEN CHOU  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
MARK EMPTAGE  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
MARY ANN FRANDEN  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
XU LI  
DATE: 02-01-2010

\_\_\_\_\_(L.S.)  
MIN ZHANG  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
PAUL V. VIITANEN  
DATE: \_\_\_\_\_