

10-04-2000



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10/03/2000 MTHA11 00000159 140460 09565233  
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**Patent Application Number(s)**

**Patent Number(s)**

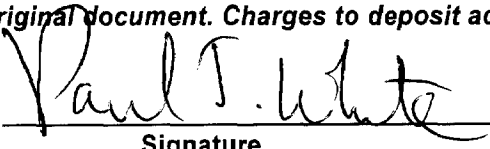
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

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**Fee Amount** Fee Amount for Properties Listed (37 CFR 3.41): \$   
Method of Payment: Enclosed  Deposit Account   
Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)  
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**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. Charges to deposit account are authorized, as indicated herein.*  
Paul J. White  July 27, 2000  
Name of Person Signing Signature Date

## ASSIGNMENT

WHEREAS, We, Min Zhang of 14178 W. Warren Drive, Lakewood, County of Jefferson, State of Colorado; and Yat-Chen Chou of 6F, #112, Meilun Street, Shihlin, Taipei, Taiwan, Republic of China; have invented certain new and useful improvements in Stable *Zymomonas mobilis* Xylose and Arabinose Fermenting Strains, which we are about to make application for Letters Patent of the United States, said application being identified as NREL IR No. 00-14 and; executed concurrently herewith; and;

WHEREAS, we now own the entire right, title and interest therein; and

WHEREAS, Midwest Research Institute, of 425 Volker Blvd., Kansas City, Missouri 64110, a corporation fully organized and existing under the laws of the State of Missouri is desirous of acquiring the entire right, title, and interest therein and thereto;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) and certain other good and valuable consideration to us in hand paid, the receipt of which is hereby acknowledged, we, the said Min Zhang and Yat-Chen Chou by these presents do sell, assign, and transfer unto the said Midwest Research Institute, its successors, legal representatives and assigns, our entire right, title, and interest in and to said invention and the aforesaid application, for the United States of America and for all foreign countries and to all Letters Patents, continuations and reissues, and extensions to be obtained therefor; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this assignment to Midwest Research Institute, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on the date set forth

hereinafter.

[Signature]  
Witness

[Signature]  
Min Zhang

[Signature]  
Witness

[Signature]  
Yat-Chen Chou

COUNTY OF JEFFERSON )  
STATE OF COLORADO )

Before me, a Notary Public in and for the said County and State, personally appeared Min Zhang known to me to be the person whose name is subscribed to the foregoing, and acknowledged to me that they executed the same for the purposes and consideration therein expressed

Given under my hand and seal of office, this 4th day of June 2000.

My commission expires: October 4, 2001.

[Seal]

[Signature]

Brenda E. Brantley, Notary Public  
State of Colorado  
My Commission Expires 10/4/2001

Approved and consented to this 2nd day of July 2000.

ATTEST:

[Signature]

MIDWEST RESEARCH INSTITUTE

By [Signature]  
Paul J. White, Reg. No. 30,436  
Its Senior Patent Counsel

## ASSIGNMENT

WHEREAS, We, Min Zhang of 14178 W. Warren Drive, Lakewood, County of Jefferson, State of Colorado; and Yat-Chen Chou of 6F, #112, Meilun Street, Shihlin, Taipei, Taiwan, Republic of China; have invented certain new and useful improvements in Method of Site-Specific Insertion in *Zymomonas mobilis*, which we are about to make application for Letters Patent of the United States, said application being identified as NREL IR No. 00-25 and; executed concurrently herewith; and;

WHEREAS, we now own the entire right, title and interest therein; and

WHEREAS, Midwest Research Institute, of 425 Volker Blvd., Kansas City, Missouri 64110, a corporation fully organized and existing under the laws of the State of Missouri is desirous of acquiring the entire right, title, and interest therein and thereto;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) and certain other good and valuable consideration to us in hand paid, the receipt of which is hereby acknowledged, we, the said Min Zhang and Yat-Chen Chou by these presents do sell, assign, and transfer unto the said Midwest Research Institute, its successors, legal representatives and assigns, our entire right, title, and interest in and to said invention and the aforesaid application, for the United States of America and for all foreign countries and to all Letters Patents, continuations and reissues, and extensions to be obtained therefor; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent, but at the expense of said assignee.

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hereinafter.

[Signature]  
Witness  
Min Zhang

[Signature]  
Witness  
Yat Chen Chou

COUNTY OF JEFFERSON )  
STATE OF COLORADO )

Before me, a Notary Public in and for the said County and State, personally appeared Min Zhang known to me to be the person whose name is subscribed to the foregoing, and acknowledged to me that they executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office, this 14th day of June 2000.

My commission expires: October 4, 2001.

[Seal]

[Signature]

Brenda E. Brantley, Notary Public  
State of Colorado  
My Commission Expires 10/4/2001

Approved and consented to this 27th day of July 2000.

ATTEST:

[Signature]

MIDWEST RESEARCH INSTITUTE

By [Signature]  
Paul J. White, Reg. No. 30,436  
Its Senior Patent Counsel