

08-09-2001



101804902
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New *07/28/01*

Resubmission (Non-Recordation)
Document ID# _____

Correction of PTO Error
Reel # _____ Frame # _____

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Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other _____

US. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

1628 U.S. PTO
09/9/7378
07/26/01

Conveying Party(ies)

Mark it additional names of conveying parties attached

Name (line 1) Shi-you Ding Execution Date 07/26/01
Month Day Year

Name (line 2) _____

Second Party

Name (line 1) William S. Adney Execution Date 07/26/01
Month Day Year

Name (line 2) _____ *09/9/7378*

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Midwest Research Institute If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment
of a domestic
representative is attached.
(Designation must be a
separate document from
Assignment)

Name (line 2) _____

Address (line 1) 425 Volker Boulevard

Address (line 2) _____

Address (line 3) Kansas City Missouri 64110
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Paul J. White

Address (line 1) National Renewable Energy Laboratory

Address (line 2) 1617 Cole Boulevard

Address (line 3) Golden, CO 80401

Address (line 4) _____

08/08/2001 00000123 140460 09917378
01 FC:581 40.00 CH

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Pages **Enter the total number of pages of the attached conveyance document including any attachments.** #

Application Number(s) or Patent Number(s) **Mark if additional numbers attached**

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

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.

Month	Day	Year
<input type="text"/>	<input type="text"/>	<input type="text"/>

Patent Cooperation Treaty (PCT)

Enter PCT application number PCT PCT PCT

only if a U.S. Application Number has not been assigned. PCT PCT PCT

Number of Properties **Enter the total number of properties involved.** #

Fee Amount **Fee Amount for Properties Listed (37 CFR 3.41):** \$

Method of Payment: Enclosed Deposit Account

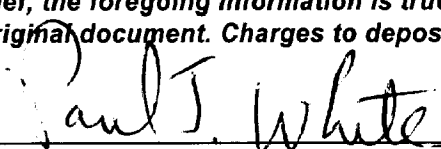
Deposit Account
(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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, 2001

Name of Person Signing Signature Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

1828 U.S. PTO
09/21/378
07/26/01

Conveying Party(ies)

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Enter additional Conveying Parties

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

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If document to be recorded is an assignment and the receiving party is not domiciled in the United states, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

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Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United states, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

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Patent Application Number(s)

Patent Number(s)

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ASSIGNMENT

WHEREAS, We, Shi-you Ding of 26 South Halman Way, #1C, Golden, County of Jefferson, State of Colorado; William S. Adney of 13190 West 21st Avenue, Golden, County of Jefferson, State of Colorado Todd B. Vanzant of 16601 West 15th Avenue, Golden, County of Jefferson, State of Colorado; and Michael E. Himmel of 9202 W. Hialeah Place, Littleton, County of Arapahoe, State of Colorado having invented certain new and useful improvements in Thermal Tolerant Mannanase from Acidothermus Cellulolyticus, which we are about to make application for Letters Patent of the United States, said application being identified as NREL IR No. 01-35 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 good and other consideration to us in hand paid, the receipt of which is hereby acknowledged, we, the said Shi-you Ding, William S. Adney, Todd B. Vanzant, and Michael E. Himmel 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]

Witness

[Signature]

Witness

[Signature]

Witness

[Signature]

Shi-you Ding

[Signature]

William S. Adney

[Signature]

Todd B. Vanzant

[Signature]

Michael E. Himmel

COUNTY OF JEFFERSON)

STATE OF COLORADO)

Before me, a Notary Public in and for the said County and State, personally appeared Shi-you Ding, William S. Adney, Todd B. Vanzant, and Michael E. Himmel known to me to be the persons whose names are 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 26th day of July 2001.

My commission expires: October 4, 2001.

[Seal]

[Signature]

Brenda E. Brantley, Notary Public
State of Colorado

Approved and consented to this 27th day of July 2001. My Commission Expires 10/4/2001

ATTEST:

7/27/01

MIDWEST RESEARCH INSTITUTE

By [Signature]

Paul J. White, Reg. No. 30,436
Its Senior Patent Counsel