FORM PTO-1619A Expires 06/30/99 OMB 0651-0027

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Conveying Party(ies) Mark it additional names of conveying parties attached Execution Date Month Day Year			
Name (line 1) Michael E. Himmel	10/12/00		
Name (line 2)	Execution Date		
Second Party	Month Day Year 10/12/00		
Name (line 2)			
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		
Name (line 2)	receiving party is not domiciled in the United States, an appointment		
Address (line 1) 425 Volker Boulevard	of a domestic representative is attached. (Designation must be a		
Address (line 2)	separate document from Assignment)		
Address (line 3) Kansas City	Missouri 64110 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	aboratory		
Address (line 2) 1617 Cole Boulevard			
Address (line 3) Golden, CO 80401			
Address (line 4)			
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PATENT

U.S. Department of Commerce

Patent and Trademark Office

PATENT

REEL: 011231 FRAME: 0373

FORM PTO-1619A Expires 06/30/99 OMB 0651- 0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Address	Area Code and Telephone Number 3	03/384-7575
Name Paul J. White		
Address (line 1) Senior Patent Counsel		
Address (line 2) National Renewable Energy Lab	poratory	
Address (line 3) 1617 Cole Boulevard		
Address (line 4) Golden, CO 80401		
Pages Enter the total number of pagincluding any attachments.	ges of the attached conveyance docume	ent # 6 pages
Application Number(s) or Patent Num		ditional numbers attached
Enter either the Patent Application Number or the P Patent Application Number(s)	-	r the same property). Number(s)
09/364,907	6,013,680	Tumber(s)
If this document is being filed together with a new Pater signed by the first named executing inventor.	nt Application, enter the date the patent application	was <u>Month Day Year</u>
Patent Cooperation Treaty (PCT)	PCT PCT	PCT
Enter PCT application number only if a U.S. Application Number		PCT
has not been assigned.	POI	
Number of Properties Enter the total	al number of properties involved. #[Two (2)
Fee Amount Fee Amount 1	for Properties Listed (37 CFR 3.41): \$	80.00
Method of Payment: Enclo Deposit Account	sed Deposit Account XX	
(Enter for payment by deposit account or if addit	nonal fees can be charged to the account.) eposit Account Number: #[14-0460
A	uthorization to charge additional fees:	Yes XX 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 October 25, 2000		
Paul J. White Name of Person Signing	Signature	Date

PATENT REEL: 011231 FRAME: 0374 **ASSIGNMENT**

WHEREAS, We, Michael E. Himmel of 9202 W. Hialeah Place, Littleton, County of Jefferson, State

of Colorado; and Steven R.. Thomas of 485 Kearney Street, City and County of Denver, State of Colorado:

and having invented certain new and useful improvements in **Expression of Enzymes Involved in Cellulose**

Modification, which we are about to make application for Letters Patent of the United States, said

application being identified as NREL IR No. 98-20 (U.S. Patent No. 6,013,680) 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 Michael E. Himmel and Steven R. Thomas 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.

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PATENT

REEL: 011231 FRAME: 0375

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

hereinafter.	
Allen Solan	Michael & Human
Witness San	Michael E. Himmel
Witness	Steven R. Thomas
COUNTY OF JEFFERSON))
STATE OF COLORADO)
Himmel and Steven R. Thomas know	e in and for the said County and State, personally appeared Michael E. wn to me to be the persons whose names are subscribed to the foregoing, executed the same for the purposes and consideration therein expressed.
Given under my hand and s	seal of office, this Att day of October 2000.
My commission expires: O	ctober 4, 2001.
[Seal]	Brenda E. Brantley
	Brenda E. Brantley, Notary Publy State of Colorado My Commission Expires 10/4/2009
Approved and consented to	this 234 day of October 2000.
ATTEST:	
Brenda & Townthey	MIDWEST RESEARCH INSTITUTE
	By Paul J. White, Reg. No. 30,436
	Its Senior Patent Counsel

PATENT REEL: 011231 FRAME: 0376 **ASSIGNMENT**

WHEREAS, We, Michael E. Himmel of 9202 W. Hialeah Place, Littleton, County of Jefferson, State

of Colorado; and Steven R. Thomas of 485 Kearney Street, City and County of Denver, State of Colorado:

and having invented certain new and useful improvements in **Expression of Enzymes Involved in Cellulose**

Modification, which we are about to make application for Letters Patent of the United States, said

application being identified as NREL IR No. 98-20 CIP (U.S. Patent Application Serial No. 09/364,907) 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

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application, for the United States of America and for all foreign countries and to all Letters Patents.

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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.

1

PATENT

REEL: 011231 FRAME: 0377

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

hereinafter.	
Witness	Michael E. Himmel
Witness	Steven R. Thomas
COUNTY OF JEFFERSON	
STATE OF COLORADO)
Himmel and Steven R. Thomas known to	and for the said County and State, personally appeared Michael E o me to be the persons whose names are subscribed to the foregoing sted the same for the purposes and consideration therein expressed
Given under my hand and seal of	of office, this / Data day of Ottober 2000.
My commission expires: Octobe	er 4, 2001.
[Seal]	Brenda E. Brantley, Notary Public State of Colorado My Commission Expires 10/4/200
Approved and consented to this	
brenda Frantley	By Paul J. White, Reg. No. 30,436 Its Senior Patent Counsel

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RECORDED: 10/30/2000

PATENT REEL: 011231 FRAME: 0378