

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
EFFECTIVE DATE:	07/26/2007																
CONVEYING PARTY DATA																	
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Michael A. Lilga</td><td>07/06/2007</td></tr><tr><td>Richard T. Hallen</td><td>07/26/2007</td></tr><tr><td>Todd A. Werpy</td><td>07/09/2007</td></tr><tr><td>James F. White</td><td>07/06/2007</td></tr><tr><td>Johnathan E. Holladay</td><td>07/23/2007</td></tr><tr><td>John G. Frye Jr.</td><td>07/06/2007</td></tr><tr><td>Alan H. Zacher</td><td>07/06/2007</td></tr></tbody></table>	Name	Execution Date	Michael A. Lilga	07/06/2007	Richard T. Hallen	07/26/2007	Todd A. Werpy	07/09/2007	James F. White	07/06/2007	Johnathan E. Holladay	07/23/2007	John G. Frye Jr.	07/06/2007	Alan H. Zacher	07/06/2007	
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John G. Frye Jr.	07/06/2007																
Alan H. Zacher	07/06/2007																
RECEIVING PARTY DATA																	
Name:	Battelle Memorial Institute																
Street Address:	P.O. Box 999																
City:	Richland																
State/Country:	WASHINGTON																
Postal Code:	99352																
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>11760634</td></tr></tbody></table>	Property Type	Number	Application Number:	11760634													
Property Type	Number																
Application Number:	11760634																
CORRESPONDENCE DATA																	
Fax Number:	(509)838-3424																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
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Address Line 4:	Spokane, WASHINGTON 99201																

PATENT

500324348

REEL: 019621 FRAME: 0807

CH \$40.00 11760634

ATTORNEY DOCKET NUMBER:

BA4-328

NAME OF SUBMITTER:

Jennifer J. Taylor, Ph.D.

Total Attachments: 9

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## ASSIGNMENT

### PARTIES TO THE ASSIGNMENT:

#### Inventors:

Michael A. Lilga  
Richard T. Hallen  
Todd A. Werpy  
James F. White  
Johnathan E. Holladay  
John G. Frye  
Alan H. Zacher

#### Assignee:

Battelle Memorial Institute  
Corporation of the State of Ohio  
902 Battelle Boulevard  
P.O. Box 999  
Richland, WA 99352

### BACKGROUND OF THIS ASSIGNMENT:

Inventors have conceived certain new and useful inventions disclosed in a United States patent application titled "Hydroxymethylfurfural Reduction Methods and Methods of Producing Furandimethanol". Serial No. 11/760,634, filed June 8, 2007.

BATTELLE MEMORIAL INSTITUTE (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title and interest in said inventions and with respect to any Letters Patent that may be granted with respect to the inventions in both the United States and in all foreign countries.

**THE PARTIES AGREE AS FOLLOWS:**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, INVENTORS have sold, assigned and transferred to ASSIGNEE the full and exclusive right to said inventions in the United States and in all foreign countries.

INVENTORS do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest in the above-identified inventions and application and to any reissues, renewals, divisions or continuations of the application thereof, and hereby authorizes the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors or assigns.

INVENTORS further agree to execute, at the request and expense of ASSIGNEE such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any applications papers required for the filing of any division, continuation or reissue of the patent application or resulting Letters Patent; and will generally do everything necessary or desirable to obtain and enforce proper protection for the inventions assigned hereby.

INVENTORS further assign to ASSIGNEE the whole right, title and interest in the inventions disclosed in the application throughout all countries foreign to the United States. ASSIGNEE is hereby authorized to apply for patents relating to the inventions in its own name in countries where such procedure is proper; to claim the benefit of the International Convention; to file and prosecute International Applications relating to the

inventions under the Patent Cooperation Treaty; and to file and prosecute applications relating to the inventions under the European Patent Convention. INVENTORS agree to execute applications relating to the inventions in those countries where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent.

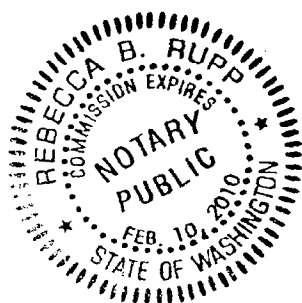
Signed at Richland Washington July 6, 2007  
[city] [state]

Michael A. Lilga  
Michael A. Lilga

State of Washington )  
County of Benton ) ss.

On July 6, 2007, before me, a Notary Public, personally appeared Michael A. Lilga who is known to me to be the person described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

SEAL



Rebecca B. Rupp  
Notary for the State of Washington  
residing at Benton City  
[City]  
Commission Expires: 2/10/2010

Signed at Richland Washington on July 26, 2007  
[city] [state]

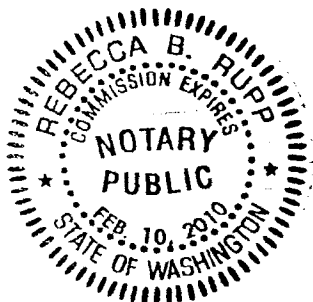
Richard T. Hallen  
Richard T. Hallen

State of Washington )  
County of Benton ) ss.

On July 26, 2007, before me, a Notary Public, personally appeared Richard T. Hallen who is known to me to be the person described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

Rebecca B. Rupp  
Notary for the State of WA  
residing at Benton City  
[City]  
Commission Expires: 2/10/2010

SEAL

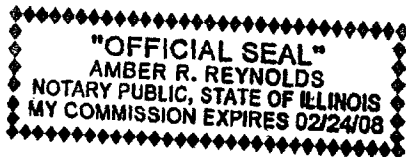


Signed at Decatur IL, on 7/9/2007, 2007  
[city] [state]

Todd A. Werpy  
Todd A. Werpy

State of Illinois )  
County of Macon ) ss.  
)

On July 9, 2007, before me, a Notary Public, personally appeared Todd A. Werpy who is known to me to be the person described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.



SEAL

Amber R. Reynolds  
Notary for the State of IL  
residing at Forsyth [City]  
Commission Expires: 02/24/08

Signed at Richland Washington, on July 6, 2007  
[city] [state]

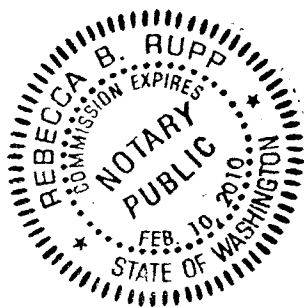
James F. White  
James F. White

State of Washington )  
County of Benton ) ss.

On July 6, 2007, before me, a Notary Public, personally appeared James F. White who is known to me to be the person described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

Rebecca B. Rupp  
Notary for the State of Washington  
residing at Benton City  
[City]  
Commission Expires: 2/10/2010

SEAL





Signed at Richland Washington on July 23, 2007  
[city] [state]

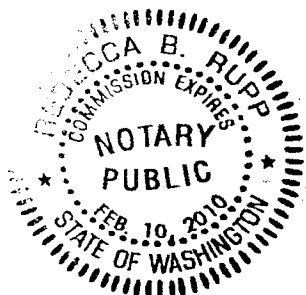
[Signature]  
Johnathan E. Holladay

State of Washington )  
County of Benton ) ss.

On July 23, 2007, before me, a Notary Public, personally appeared Johnathan E. Holladay who is known to me to be the person described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

Rebecca B. Rupp  
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Commission Expires: 2/10/2010

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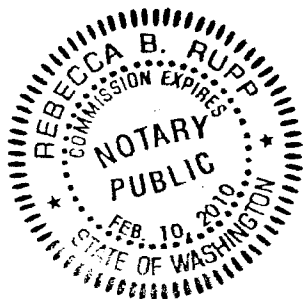
John G. Frye, Jr.  
John G. Frye, Jr.

State of Washington )  
County of Benton ) ss.

On July 6, 2007, before me, a Notary Public, personally appeared John G. Frye who is known to me to be the person described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

Rebecca B. Rupp  
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residing at Benton City  
[City]  
Commission Expires: 2/10/2010

SEAL



Signed at Richland Washington on July 6, 2007  
[city] [state]

Alan H. Zacher  
Alan H. Zacher

State of Washington )  
County of Benton ) ss.

On July 6, 2007, before me, a Notary Public, personally appeared Alan H. Zacher who is known to me to be the person described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

Rebecca B. Rupp  
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[City]  
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