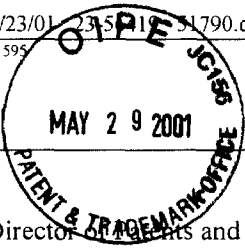


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FORM PTO-1595  
1-31-92

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Patent and Trademark Office



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To the Director of Patents and Trademarks. Please record the attached original documents or copy thereof.

<b>1. Name of Conveying Party(ies):</b> Andrew J. Schmidt, Rick J. Orth, James A. Franz and Mikhail Alnajjar <b>Additional name(s) of conveying party(ies) attached?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>2. Name and address of receiving party(ies):</b> Name: <u>Battelle Memorial Institute</u> Internal Address: _____
<b>3. Nature of Conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>March 12, 2001, March 15, 2001, and March 13, 2001</u>	Street Address: <u>902 Battelle Boulevard</u> City <u>Richland</u> State <u>WA</u> ZIP <u>99352</u> <b>Additional name(s) &amp; address(es) attached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**4. Application number(s) or patent number(s):**  
 If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

<b>A. Patent Application No.(s)</b> <u>09/792,906</u>	<b>B. Patent No.(s)</b>  <b>Additional numbers attached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b> Name: <u>Wayne Rupert</u> <u>Klarquist Sparkman Campbell Leigh &amp; Whinston, LLP</u> <b>Internal Address:</b> <u>One World Trade Center, Suite 1600</u> <b>Street Address:</b> <u>121 S.W. Salmon Street</u> <u>Portland, Oregon 97204-2988</u>	<b>6. Total number of applications and patents involved:</b> <u>One</u> <b>7. Total fee (37 C.F.R. § 3.41):</b> <u>\$40.00</u> Enclosed <b>8. <input checked="" type="checkbox"/> Any deficiency/overpayment is authorized to be charged to deposit account 02-4550.</b>
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**9. 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.*

<u>Wayne Rupert</u> Name of Person Signing	 Signature	<u>May 23, 2001</u> Date
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Total number of pages including cover sheet, attachments and document: 4

OMB No. 0651-0011 (exp. 4/94)

A S S I G N M E N T

Andrew J. Schmidt  
Rick J. Orth  
James A. Franz  
Mikhail Alnajjar  
to

Battelle Memorial Institute

WHEREAS we, Andrew J. Schmidt, of Richland, in the County of Benton, and State of Washington; Rick J. Orth, of Kennewick, in the County of Benton, and State of Washington; James A. Franz, of Kennewick, in the County of Benton, and State of Washington and Mikhail Alnajjar, of Richland, in the County of Benton, and State of Washington have made certain inventions in HYDROLYSIS OF BIOMASS MATERIAL, described and claimed in Application Serial Number 09/792,906, filed February 23, 2001; and

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or patents to be obtained therefor;

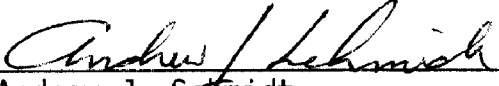
NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application; and in and to any extensions, reissues, divisions, or renewals thereof; and I/we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Battelle Memorial Institute, as the assignee of our entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, of any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.


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IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 12 day of March, 2001.

  
\_\_\_\_\_  
Andrew J. Schmidt

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IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 12 day of March, 2001.

  
\_\_\_\_\_  
Rick J. Orth