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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<p>1. Name of conveying party(ies): AY Tonkovich, Y Wang, RS Wegeng, Y Gao <b>MRD 10-30-98</b></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and Address of receiving party(ies): Name: <u>Battelle Memorial Institute K1-53</u> Internal Address: <u>K1-53</u> <u>P.O. Box 999</u> <u>Intellectual Property Services</u> Street Address: <u>902 Battelle Blvd.</u> <u>Intellectual Property Services</u> City: <u>Richland</u> State: <u>WA</u> Zip: <u>99352</u></p> <p>Additional name(s) &amp; addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <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>10/26/98</u></p>	

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: \_\_\_\_\_

A. Patent Application No.(s): 09/123,779 | B. Patent No.(s): \_\_\_\_\_

Additional numbers attached?  Yes  No

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Paul W. Zimmerman</u> Internal Address: <u>K1-53</u> <u>P.O. Box 999</u> <u>Intellectual Property Services</u> Street Address: <u>902 Battelle Blvd.</u> City: <u>Richland</u> State: <u>WA</u> Zip: <u>99352</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>#02-1275 (Payor No. 005055)</u> (Attach duplicate copy of this page if paying by deposit account)</p>
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To the best of my knowledge and belief, the foregoing information is true and correct, any attached copy is a true copy of the original document.

Paul W. Zimmerman  
Name of person signing

Paul W. Zimmerman  
Signature

98/OCT/26  
Date

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PATENT  
REEL: 9597 FRAME: 0276

A S S I G N M E N T

Anna Lee Y. Tonkovich  
Yong Wang  
Robert S. Wegeng  
Yufei Gao

to

Battelle Memorial Institute

WHEREAS we, Anna Lee Y. Tonkovich, of Pasco, in the County of Franklin, and State of Washington; Yong Wang, of Richland, in the County of Benton, and State of Washington; Robert S. Wegeng of Richland, in the County of Benton, and State of Washington; and Yufei Gao, of Kennewick, in the County of Benton, and State of Washington, have made certain inventions in METHOD AND APPARATUS FOR OBTAINING ENHANCED PRODUCTION RATE OF THERMAL CHEMICAL REACTIONS described and claimed in Application Serial Number 09/123,779, filed July 27, 1998, 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 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.

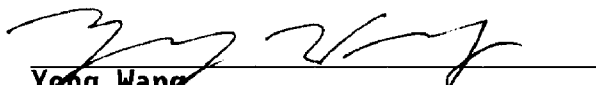
And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its 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 \_\_\_\_\_ day of October, 1998.

  
\_\_\_\_\_  
Anna Lee Y. Tonkovich

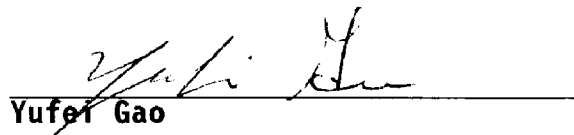
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 13 day of October, 1998.

  
\_\_\_\_\_  
Yong Wang

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 26 day of October, 1998.

  
\_\_\_\_\_  
Robert S. Wegeng

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 13 day of October, 1998.

  
\_\_\_\_\_  
Yufei Gao