


RE: Document ID Number: 70005429

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) Tab settings $\Rightarrow \Rightarrow \Rightarrow$		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Robert S. Wegeng Scot D. Rassat Ward E. TeGrotenhuis Kevin Drost Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			2. Name and address of receiving party(ies) Name: <u>Battelle Memorial Institute</u> Internal Address: <u>P.O. Box 999</u> _____ _____ Street Address: <u>902 Battelle Boulevard</u> _____ City: <u>Richland</u> State: <u>WA</u> Zip: <u>99352</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
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>10/28/02</u>			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) <u>10/135,891</u> _____ B. Patent No.(s) _____ _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Stephen R. May</u> Internal Address: <u>P.O. Box 999</u> _____ _____ Street Address: <u>902 Battelle Boulevard</u> _____ City: <u>Richland</u> State: <u>WA</u> Zip: <u>99352</u>			6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41).....\$ _____ <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>02-1275</u>		
DO NOT USE THIS SPACE					
9. Signature. <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 30%;"> <u>Stephen R. May</u> Name of Person Signing </div> <div style="width: 30%; text-align: center;">  Signature </div> <div style="width: 30%; text-align: center;"> <u>29 Sept 2003</u> Date </div> </div> <div style="text-align: right; margin-top: 10px;"> Total number of pages including cover sheet, attachments, and documents: <u>9</u> </div>					

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

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 PATENT
 REEL: 014013 FRAME: 0984

Page 2

Additional Names of Conveying Party(ies):

Vilayanur V. Vishwanathan

PATENT
File No. 13025E-CIP

ASSIGNMENT

Robert S. Wegeng
Scot D. Rassat
Ward E. TeGrotenhuis
Kevin Drost
Vilayanur V. Vishwanathan

to

Battelle Memorial Institute

WHEREAS we, Robert S. Wegeng, of Richland, in the County of Benton, and State of Washington; Scot D. Rassat, of Benton City, in the County of Benton, and State of Washington; Ward E. TeGrotenhuis, of Kennewick, in the County of Benton, and State of Washington; Kevin Drost, of Corvallis, in the County of Benton, and State of Oregon; and Vilayanur V. Vishwanathan of Richland, in the County of Benton, and State of Washington; have made certain inventions in METHOD AND APPARATUS FOR THERMAL SWING ADSORPTION AND THERMALLY-ENHANCED PRESSURE SWING ADSORPTION, described and claimed in Application Serial Number 10/135,891, filed April 29, 2002; 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.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this 25th day of ~~July~~, 2002.

*June
Rsw*
Robert S. Wegeng
Robert S. Wegeng

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this 25th day of ~~July~~, 2002.

*June
DR*
Scot D. Rassat
Scot D. Rassat

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this 18th day of July, 2002.

Ward E. TeGrotenhuis
Ward E. TeGrotenhuis

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Corvallis, Oregon, this _____ day of July, 2002.

Kevin Drost

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this 28th day of ~~July~~, 2002.

June 11

V.V. Vishwanathan
Vilayanur V. Vishwanathan

PATENT
File No. 13025B-CIP

ASSIGNMENT

Robert S. Wegeng
Scot D. Rassat
Ward E. TeGrotenhuis
Kevin Drost
Vilayanur V. Vishwanathan

to

Battelle Memorial Institute

WHEREAS we, Robert S. Wegeng, of Richland, in the County of Benton, and State of Washington; Scot D. Rassat, of Benton City, in the County of Benton, and State of Washington; Ward E. TeGrotenhuis, of Kennewick, in the County of Benton, and State of Washington; Kevin Drost, of Corvallis, in the County of Benton, and State of Oregon; and Vilayanur V. Vishwanathan of Richland, in the County of Benton, and State of Washington; have made certain inventions in METHOD AND APPARATUS FOR THERMAL SWING ADSORPTION AND THERMALLY-ENHANCED PRESSURE SWING ADSORPTION, described and claimed in Application Serial Number 10/135,891, filed April 29, 2002; 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.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this _____ day of July, 2002.

Robert S. Wegeng

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this _____ day of July, 2002.

Scot D. Rassat

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this _____ day of July, 2002.

Ward E. TeGrotenhuis

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Corvallis, Oregon, this 28th day of July, 2002.

10/28/02
Kevin Drost

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this _____ day of July, 2002.

Vilayanur V. Vishwanathan