

Form PTO-1595

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Patent and Trademark OfficeOur Reference: E-1240C2C1

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

<p>1. Name of conveying party(ies): PM Martin, WD Bennett, DW Matson, DC Stewart, MK Drost, RS Wegeng, JM Perez X Feng and J Liu</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):</p> <p>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) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><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>05/04/98</u></p>	<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: _____</p> <p>A. Patent Application No.(s): <u>08938228</u> B. Patent No.(s): _____</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>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></p> <p><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>

DO NOT USE THIS SPACE

9. Statement and signature:

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 29/MAY/19
 Signature Date

Total number of pages including cover sheet: 7

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents
 Box Assignments
 Washington, D.C. 20231

700000786

PATENT
 REEL: 010630 FRAME: 0778

PATENT

File No. E-1240 C2C1

A S S I G N M E N T

Peter M. Martin
Wendy D. Bennett
Dean W. Matson
Donald C. Stewart
Monte K. Drost
Robert S. Wegeng
Joseph M. Perez
Xiangdong Feng
Jun Liu

to

Battelle Memorial Institute

WHEREAS we, Peter M. Martin of Kennewick, in the County of Benton, and State of Washington; Wendy D. Bennett of Kennewick, in the County of Benton, and State of Washington; Dean W. Matson of Kennewick, in the County of Benton, and State of Washington; Donald C. Stewart of Richland, in the County of Benton, and State of Washington; Monte K. Drost of Pasco, in the County of Franklin, and State of Washington; Robert S. Wegeng of Richland, in the County of Benton, and State of Washington; Joseph M. Perez of Richland, in the County of Benton, and State of Washington; Xiangdong Feng of West Richland, in the County of Benton, and State of Washington; and Jun Liu of West Richland, in the County of Benton, and State of Washington; have made certain inventions in MICROCHANNEL LAMINATED MASS EXCHANGER AND METHOD OF MAKING, described and claimed in Application Serial Number 08/938,228, filed September 26, 1997; 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.

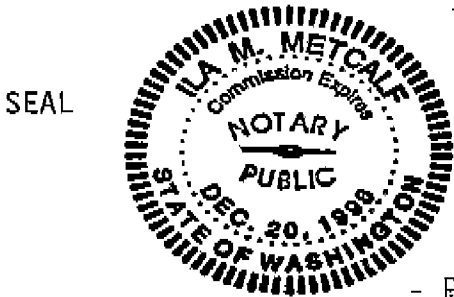
And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its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

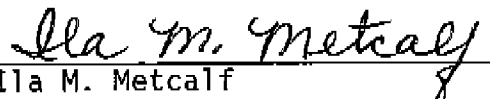
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 30 day of April, 1998.


Peter M. Martin

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 30th day of April, 1998, before me a Notary Public in and for the County aforesaid, personally appeared Peter M. Martin, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.




Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

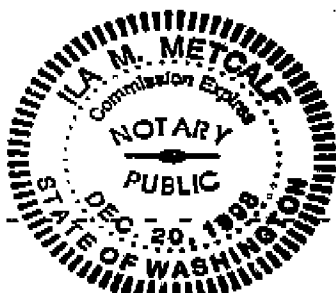
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 28 day of April, 1998.

Wendy D. Bennett
Wendy D. Bennett

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 28th day of April, 1998, before me a Notary Public in and for the County aforesaid, personally appeared **Wendy D. Bennett**, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be ~~his~~ ^{her} voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

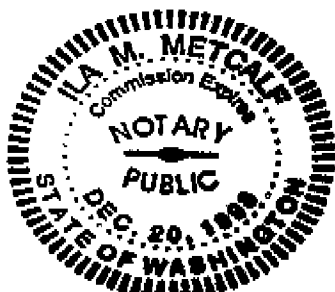
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 4th day of ~~April~~ ^{May}, 1998.

Dean W. Matson
Dean W. Matson

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 4th day of ~~April~~ ^{May}, 1998, before me a Notary Public in and for the County aforesaid, personally appeared **Dean W. Matson**, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

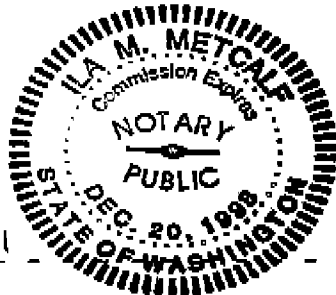
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this 29th day of April, 1998.

Donald C. Stewart
Donald C. Stewart

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 29th day of April, 1998, before me a Notary Public in and for
the County aforesaid, personally appeared **Donald C. Stewart**, personally known
to me and known to be the person described in and who executed the foregoing
assignment and acknowledged the same to be his voluntary act and deed, and
that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

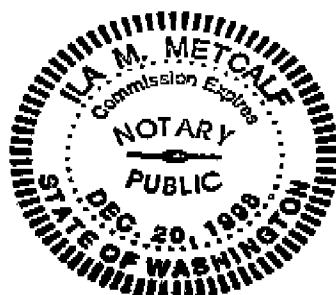
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal
at Richland, Washington, this 4/29 day of April, 1998.

Monte K. Drost
Monte K. Drost

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 29th day of April, 1998, before me a Notary Public in and for
the County aforesaid, personally appeared **Monte K. Drost**, personally known to
me and known to be the person described in and who executed the foregoing
assignment and acknowledged the same to be his voluntary act and deed, and
that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/9

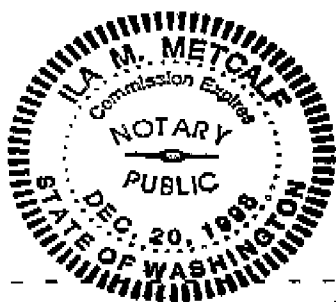
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 1 day of ~~April~~^{May}, 1998.

Robert S. Wegeng
Robert S. Wegeng

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 1st^{may} day of ~~April~~, 1998, before me a Notary Public in and for the County aforesaid, personally appeared **Robert S. Wegeng**, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

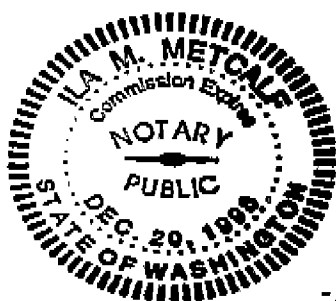
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 29th day of April, 1998.

Joseph M. Perez
Joseph M. Perez

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 29th day of April, 1998, before me a Notary Public in and for the County aforesaid, personally appeared **Joseph M. Perez**, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

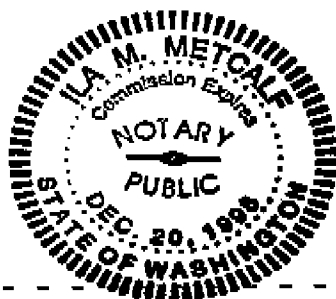
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 28 day of April, 1998.

Xiangdong Feng
Xiangdong Feng

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 28th day of April, 1998, before me a Notary Public in and for the County aforesaid, personally appeared **Xiangdong Feng**, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

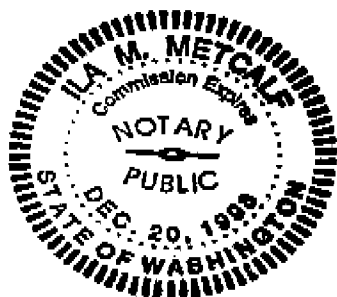
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 4th day of ~~April~~ ^{May}, 1998.

Jun Liu
Jun Liu

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 4th day of ~~April~~ ^{May}, 1998, before me a Notary Public in and for the County aforesaid, personally appeared **Jun Liu**, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98



FACSIMILE TRANSMITTAL

DATE: May 11, 2000

To: Patent and Trademark Assignment System
Company: U.S. Patent and Trademark Office
City/State: Washington, DC 20231
Facsimile #: (703) 306-5995
Telephone #: (703) 308-9723

From: Stephen R. May
Battelle, Pacific Northwest Division
Facsimile #: (509) 375-4487
Telephone #: (509) 375-2387

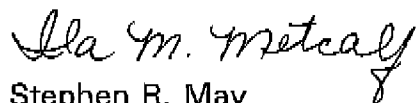
Transmittal Consists of [8] Page(s) including cover page.

COMMENTS:

Re: U. S. Patent Application No. 08/938,228; Filed September 26, 1997
Batch No. 114
MICROCHANNEL LAMINATED MASS EXCHANGER
AND METHOD OF MAKING
Our File Reference No. E1240C2C1

Dear Sirs:

Please record the attached Assignment document to Battelle Memorial Institute.

for 

Stephen R. May
Intellectual Property Services
Reg. No. 29,255
