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Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:

<p>1. Name of conveying party(ies): Ronald F. Childs; Alicja M. Mika; Jijun Ge; Chris McCrory</p> <p>Additional name(s) of conveying party(ies) attached: NO</p>	<p>2. Name and address of receiving party(ies): Name: McMaster University</p> <p>Street Address: 1280 Main Street West, Gilmour Hall 311, Hamilton, Ontario L8S 4L8, Canada</p> <p>Additional name(s) & address(es) attached? NO</p>		
<p>3. Name 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:</p> <p>Execution Date: March 16, 2004, March 16, 2004, March 15, 2004, March 16, 2004</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> <table border="0"> <tr> <td data-bbox="73 1060 657 1134"> <p>A. Patent Application No.(s) 10/484,059</p> </td> <td data-bbox="706 1060 1453 1134"> <p>B. Patent No.(s)</p> </td> </tr> </table> <p>Additional numbers attached? NO</p>		<p>A. Patent Application No.(s) 10/484,059</p>	<p>B. Patent No.(s)</p>
<p>A. Patent Application No.(s) 10/484,059</p>	<p>B. Patent No.(s)</p>		
<p>5. Please return the recorded document and address all correspondence to:</p> <p>CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasadena, CA 91109-7068 Attention: D. Bruce Prout</p> <p>0. <input type="checkbox"/> Explanatory letter is enclosed.</p>	<p>6. Total number of applications and patents involved 1</p> <p>7. <input type="checkbox"/> Total fee enclosed (37 CFR 3.41): \$</p> <p>8. <input checked="" type="checkbox"/> Any deficiency or overpayment of fees should be charged or credited to Deposit Account No. 03-1728, except for payment of issue fees required under 37 CFR § 1.18. Please show our docket number with any credit or charge to our Deposit Account.</p>		
<p>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.</p> <p>Date: September 1, 2004</p> <p>I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office on <u>Sept. 1, 2004</u> (Date)</p> <p>By <u>D. Bruce Prout</u> Name: D. Bruce Prout 626/795-9900</p> <p>Signature <u>[Signature]</u></p> <p>Total number of pages including cover sheet, attachments, and document: 8</p> <p>Typed or printed name of person signing Certificate</p>			

11-17-04

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FORM PTO-1595

Docket No. 51501/URP/S318

RECORDATION FORM COVER SHEET
PATENTS ONLYMail Stop Assignment - Recordation Services
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P.O. Box 1450
Alexandria, Virginia 22313-1450Post Office Box 7068
Pasadena, CA 91109-7068

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3. Name 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: March 16, 2004, March 16, 2004, March 15, 2004, March 16, 2004			
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) 10484,259 B. Patent No.(s)			
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PATENT
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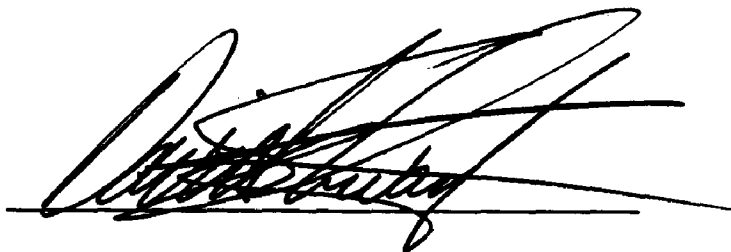
NOTARIAL CERTIFICATE

PROVINCE OF ONTARIO)

TO WIT)

I, David Eric Schwartz, a Notary Public in and for the Province of Ontario, by Royal authority duly appointed, residing at the City of Ottawa, in the said province, do certify that the paper writing hereto annexed is a true copy of a document produced and shown to me and purporting to be an original assignment from Jijun GE to MCMASTER UNIVERSITY being executed March 15, 2004, the said copy having been compared by me with the said original document, an act whereof being requested I have granted my notarial form and seal of office to serve and avail as occasion shall or may require.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my notarial seal this 6th day of May, 2004 at the City of Ottawa, Canada.

A handwritten signature in black ink, appearing to read 'David Eric Schwartz', written over a horizontal line.

A Notary Public in and for
the Province of Ontario

ASSIGNMENT

WHEREAS, we, Ronald F. CHILDS, Alicja M. MIKA, Jijun GE and Chris McCrory citizens, respectively, of Canada, Canada, China and Canada, residing at, respectively, 130 Grant Boulevard, Dundas, Ontario L9H 6J4, Canada, 25 Brodik Street, Hamilton, Ontario L8S 4E3, Canada, 80 Joyce Lane, Buxborough, Massachusetts 01719, U.S.A. and 13900 Chestnut Drive, Apt. 320, Eden Prairie, Minnesota 55344, U.S.A., have made certain inventions and discoveries disclosed in U.S. Provisional Patent Application No. 60/306,412 and International PCT Application No. PCT/CA2002/001102, entitled ASYMMETRIC GEL-FILLED MICROPOROUS MEMBRANES, filed respectively on July 20, 2001 and July 18, 2002 (hereinafter referred to as the "Applications");

AND WHEREAS, McMASTER UNIVERSITY, whose full post office address is 1280 Main Street West, Gilmour Hall 311, Hamilton, Ontario L8S 4L8, Canada, (hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest in and to said inventions and discoveries, and in and to the Applications inclusive of any and all priority rights derived therefrom for any and all countries in the world, and in and to any and all Letters Patent issuing in any and all countries in the world, to be granted for said inventions and discoveries based on said Applications or on patent applications filed in any country claiming priority from said Applications;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the assignors, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, our entire right, title, and interest in and to the inventions and discoveries disclosed in the Applications, and in and to the Applications and any continuations or divisions thereof and all priority rights derived therefrom, and in and to any and all patent applications and any continuations or divisions thereof filed in any country claiming priority from the Applications, and in and to all Letters Patent which may be granted upon the Applications or upon patent applications filed in any and all countries in the world including the United States of America, claiming priority from the Applications, and in and to any and all reissues, substitutions, or prolongations thereof; the same to be held and enjoyed by the Assignee for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which said Letters Patent, or reissues, substitutions, or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND we hereby agree that, upon request, and without further consideration, but at the expense of the Assignee, we will communicate to the Assignee or its representatives or nominees any facts known to us respecting said inventions and discoveries and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said

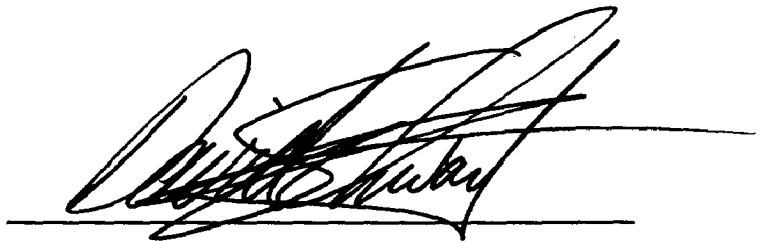
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inventions and discoveries in all countries, and we further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to said inventions and discoveries, and in and to any and all Letters Patent or reissues thereof which may be granted upon applications in any and all countries in the world.

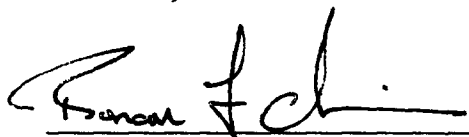
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THIS assignment made effective as of July 20, 2001.

SIGNED this 16 day of March, 2004.

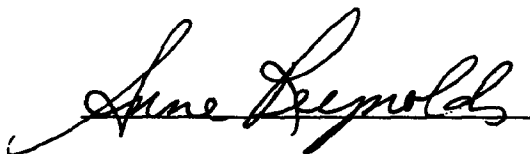


WITNESS

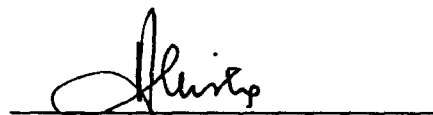


RONALD F. CHILDS

SIGNED this 16 day of March, 2004.



WITNESS



ALICJA M. MIKA

SIGNED this _____ day of _____, 2004.

WITNESS

JLJUN GE

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65821-27 DES:srq

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AND we hereby authorize and request any official whose duty it is to issue patents to issue each and every Letters Patent to be granted upon the aforesaid Applications in any and all countries, and each and every reissue of said Letters Patent, to the Assignee, its successors and assigns, as the assignee of our entire right, title and interest therein, in accordance with this assignment.

THIS assignment made effective as of July 20, 2001.

SIGNED this day of , 2004.

WITNESS

RONALD F. CHILDS

SIGNED this day of , 2004.

WITNESS

ALICIA M. MIKA

SIGNED this 15 day of March, (3/15) , 2004.

Brian Powell
WITNESS

JLUN GE
JLUN GE

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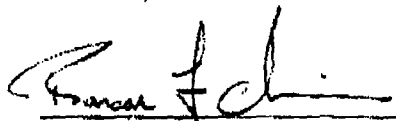
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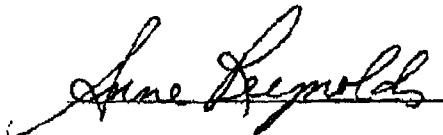


WITNESS



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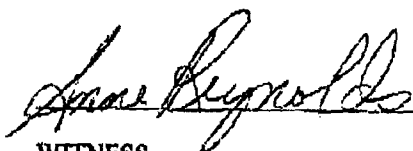
ALICJA M. MIKA

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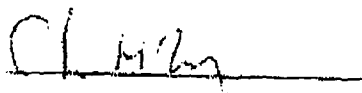
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ILUN GE

SIGNED this day of , 2004.



WITNESS


CHRIS MCCRORY

ACKNOWLEDGED AND ACCEPTED at Hamilton, Ontario, this 5th day of April, 2004.

McMASTER UNIVERSITY

BY: 

Marcel D. Mongeon
print name

Executive Director
title and Legal Counsel

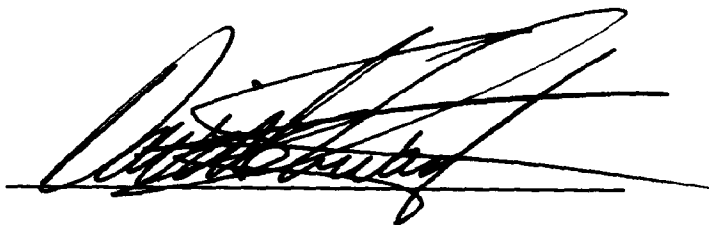
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the Province of Ontario

ASSIGNMENT

WHEREAS, we, Ronald F. CHILDS, Alicja M. MIKA, Jijun GE and Chris McCrory citizens, respectively, of Canada, Canada, China and Canada, residing at, respectively, 130 Grant Boulevard, Dundas, Ontario L9H 6J4, Canada, 25 Brodick Street, Hamilton, Ontario L8S 4E3, Canada, 80 Joyce Lane, Boxborough, Massachusetts 01719, U.S.A. and 13900 Chestnut Drive, Apt. 320, Eden Prairie, Minnesota 55344, U.S.A., have made certain inventions and discoveries disclosed in U.S. Provisional Patent Application No. 60/306,412 and International PCT Application No. PCT/CA2002/001102, entitled ASYMMETRIC GEL-FILLED MICROPOROUS MEMBRANES, filed respectively on July 20, 2001 and July 18, 2002 (hereinafter referred to as the "Applications");

AND WHEREAS, McMASTER UNIVERSITY, whose full post office address is 1280 Main Street West, Gilmour Hall 311, Hamilton, Ontario L8S 4L8, Canada, (hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest in and to said inventions and discoveries, and in and to the Applications inclusive of any and all priority rights derived therefrom for any and all countries in the world, and in and to any and all Letters Patent issuing in any and all countries in the world, to be granted for said inventions and discoveries based on said Applications or on patent applications filed in any country claiming priority from said Applications;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the assignors, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, our entire right, title, and interest in and to the inventions and discoveries disclosed in the Applications, and in and to the Applications and any continuations or divisions thereof and all priority rights derived therefrom, and in and to any and all patent applications and any continuations or divisions thereof filed in any country claiming priority from the Applications, and in and to all Letters Patent which may be granted upon the Applications or upon patent applications filed in any and all countries in the world including the United States of America, claiming priority from the Applications, and in and to any and all reissues, substitutions, or prolongations thereof; the same to be held and enjoyed by the Assignee for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which said Letters Patent, or reissues, substitutions, or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND we hereby agree that, upon request, and without further consideration, but at the expense of the Assignee, we will communicate to the Assignee or its representatives or nominees any facts known to us respecting said inventions and discoveries and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said

inventions and discoveries in all countries, and we further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to said inventions and discoveries, and in and to any and all Letters Patent or reissues thereof which may be granted upon applications in any and all countries in the world.

AND we hereby authorize and request any official whose duty it is to issue patents to issue each and every Letters Patent to be granted upon the aforesaid Applications in any and all countries, and each and every reissue of said Letters Patent, to the Assignee, its successors and assigns, as the assignee of our entire right, title and interest therein, in accordance with this assignment.

THIS assignment made effective as of July 20, 2001.

SIGNED this day of , 2004.

WITNESS

RONALD F. CHILDS

SIGNED this day of , 2004.

WITNESS

ALICIA M. MIKA

SIGNED this 15 day of March, (3/15) , 2004.

Beg. Patel

WITNESS

JLUN GE

JLUN GE

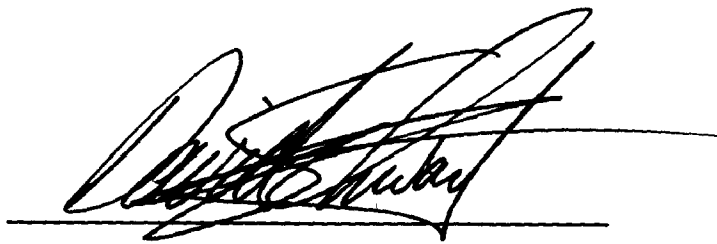
NOTARIAL CERTIFICATE

PROVINCE OF ONTARIO)

TO WIT)

I, David Eric Schwartz, a Notary Public in and for the Province of Ontario, by Royal authority duly appointed, residing at the City of Ottawa, in the said province, do certify that the paper writing hereto annexed is a true copy of a document produced and shown to me and purporting to be an original assignment from Ronald F. CHILDS, Alicja M. MIKA, and Chris MCCRORY to MCMASTER UNIVERSITY being executed March 16, 2004, the said copy having been compared by me with the said original document, an act whereof being requested I have granted my notarial form and seal of office to serve and avail as occasion shall or may require.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my notarial seal this 6th day of May, 2004 at the City of Ottawa, Canada.

A handwritten signature in black ink, appearing to read 'David Eric Schwartz', is written over a horizontal line.

A Notary Public in and for
the Province of Ontario

ASSIGNMENT

WHEREAS, we, Ronald F. CHILDS, Alicja M. MIKA, Jijun GE and Chris McCrory citizens, respectively, of Canada, Canada, China and Canada, residing at, respectively, 130 Grant Boulevard, Dundas, Ontario L9H 6J4, Canada, 25 Brodik Street, Hamilton, Ontario L8S 4E3, Canada, 80 Joyce Lane, Boxborough, Massachusetts 01719, U.S.A. and 13900 Chestnut Drive, Apt. 320, Eden Prairie, Minnesota 55344, U.S.A., have made certain inventions and discoveries disclosed in U.S. Provisional Patent Application No. 60/306,412 and International PCT Application No. PCT/CA2002/001102, entitled **ASYMMETRIC GEL-FILLED MICROPOROUS MEMBRANES**, filed respectively on July 20, 2001 and July 18, 2002 (hereinafter referred to as the "Applications");

AND WHEREAS, McMASTER UNIVERSITY, whose full post office address is 1280 Main Street West, Gilmour Hall 311, Hamilton, Ontario L8S 4L8, Canada, (hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest in and to said inventions and discoveries, and in and to the Applications inclusive of any and all priority rights derived therefrom for any and all countries in the world, and in and to any and all Letters Patent issuing in any and all countries in the world, to be granted for said inventions and discoveries based on said Applications or on patent applications filed in any country claiming priority from said Applications;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the assignors, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, our entire right, title, and interest in and to the inventions and discoveries disclosed in the Applications, and in and to the Applications and any continuations or divisions thereof and all priority rights derived therefrom, and in and to any and all patent applications and any continuations or divisions thereof filed in any country claiming priority from the Applications, and in and to all Letters Patent which may be granted upon the Applications or upon patent applications filed in any and all countries in the world including the United States of America, claiming priority from the Applications, and in and to any and all reissues, substitutions, or prolongations thereof; the same to be held and enjoyed by the Assignee for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which said Letters Patent, or reissues, substitutions, or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND we hereby agree that, upon request, and without further consideration, but at the expense of the Assignee, we will communicate to the Assignee or its representatives or nominees any facts known to us respecting said inventions and discoveries and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said

inventions and discoveries in all countries, and we further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to said inventions and discoveries, and in and to any and all Letters Patent or reissues thereof which may be granted upon applications in any and all countries in the world.

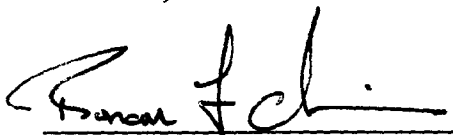
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THIS assignment made effective as of July 20, 2001.

SIGNED this 16 day of March, 2004.

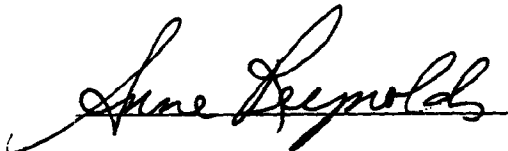


WITNESS

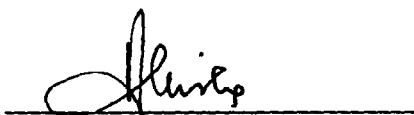


RONALD F. CHILDS

SIGNED this 16 day of March, 2004.



WITNESS



ALICJA M. MIKA

SIGNED this _____ day of _____, 2004.

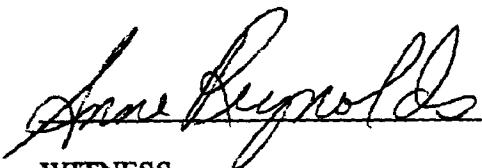
WITNESS

JUN GE

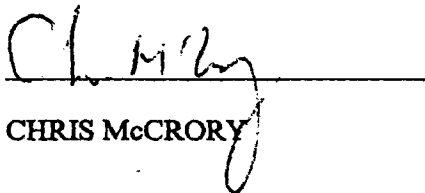
SIGNED this

day of

, 2004.

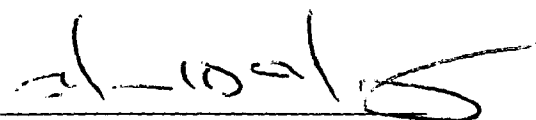


WITNESS


CHRIS McCRORY

ACKNOWLEDGED AND ACCEPTED at Hamilton, Ontario, this 8th day of April, 2004.

McMASTER UNIVERSITY

BY: 

Marcel D. Mongeon
print name

Executive Director
title and legal Counsel