

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT						
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT						
<b>CONVEYING PARTY DATA</b>							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Christopher T. Calderone</td> <td>08/22/2006</td> </tr> <tr> <td>David R. Liu</td> <td>08/08/2006</td> </tr> </tbody> </table>		Name	Execution Date	Christopher T. Calderone	08/22/2006	David R. Liu	08/08/2006
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Christopher T. Calderone	08/22/2006						
David R. Liu	08/08/2006						
<b>RECEIVING PARTY DATA</b>							
<b>Name:</b>	President and Fellows of Harvard College						
<b>Street Address:</b>	17 Quincy Street						
<b>City:</b>	Cambridge						
<b>State/Country:</b>	MASSACHUSETTS						
<b>Postal Code:</b>	02138						
<b>PROPERTY NUMBERS Total: 1</b>							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US0623654</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US0623654		
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PCT Number:	US0623654						
<b>CORRESPONDENCE DATA</b>							
<b>Fax Number:</b>	(617)523-1231						
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<b>Address Line 4:</b>	Boston, MASSACHUSETTS 02109						
<b>ATTORNEY DOCKET NUMBER:</b>	ENS-011PC						
<b>NAME OF SUBMITTER:</b>	Randall D. Morin						
<b>Total Attachments: 3</b> source=ENS-011PC Executed Assignment#page1.tif source=ENS-011PC Executed Assignment#page2.tif source=ENS-011PC Executed Assignment#page3.tif							

CH \$40.00 US0623654

**ASSIGNMENT**

WHEREAS, We, Christopher T. Calderone and David R. Liu, have invented one or more inventions described in an international patent application filed via the Patent Cooperation Treaty (PCT) entitled:

**ITERATED BRANCHING REACTION PATHWAYS VIA NUCLEIC ACID-MEDIATED CHEMISTRY**

and identified by Serial No. PCT/US2006/023654 filed in the United States Patent Office as Receiving Office on June 16, 2006; and

WHEREAS, President and Fellows of Harvard College (hereinafter "ASSIGNEE"), a non-profit Massachusetts educational corporation having a business address at 17 Quincy Street, Cambridge, MA 02138, desires to acquire an interest therein, in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority (including U.S. Provisional Patent Application Serial No. 60/691,628, filed June 17, 2005); said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of our execution of this assignment;

AND, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

*IN TESTIMONY WHEREOF*, we have hereunto set our hands and affixed our seals on the date(s) set forth below.


Inventor:   
Christopher T. Calderone

Commonwealth of Massachusetts )  
County of *Suffolk* ) ss

On this *22* day of *August*, 2006, before me, the undersigned Notary Public, personally appeared Christopher T. Calderone, proved to me through satisfactory evidence of identification, which was/were *MA driver's lic.*, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

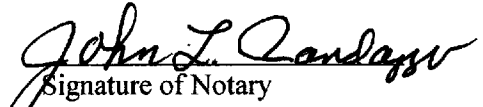
  
Signature of Notary **JANET MAHER, Notary Public** (Seal)  
My Commission Expires May 10, 2013

My Commission Expires: \_\_\_\_\_

Inventor:   
David R. Liu

Commonwealth of Massachusetts )  
County of ) ss

On this 8 day of August, 2006, before me, the undersigned Notary Public, personally appeared David R. Liu, proved to me through satisfactory evidence of identification, which was/were ED, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Signature of Notary

(Seal)

My Commission Expires: JOHN L. RANDAZZO  
NOTARY PUBLIC  
My Commission Expires April 30, 2010

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