

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4847267

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOSEPH JACOBSON	03/24/2011
GEORGE CHURCH	03/10/2011
LARRY LI-YANG CHU	03/23/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GEN9, INC.
<b>Street Address:</b>	500 TECHNOLOGY SQUARE
<b>Internal Address:</b>	SUITE 130
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15814826
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)502-5002
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<b>Email:</b>	PatentDocket@choate.com
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<b>Address Line 1:</b>	TWO INTERNATIONAL PLACE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	2011832-0146
<b>NAME OF SUBMITTER:</b>	ELIZABETH M. ROHLFS, PHD, JD
<b>SIGNATURE:</b>	/Elizabeth M. Rohlfs/
<b>DATE SIGNED:</b>	03/01/2018
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

WHEREAS, We, Joseph Jacobson, George Church and Larry Li-yang Chu have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

**METHODS AND DEVICES FOR HIGH FIDELITY POLYNUCLEOTIDE SYNTHESIS**

and identified by

Attorney Docket No. \_\_\_\_\_, and/or executed by us on even date herewith and about to be filed in the United States Patent Office;

Application No. 13/060,178 filed in the United States Patent Office on February 22, 2011; and

WHEREAS, Gen9, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 500 Technology Square, Suite 130, Cambridge, MA 02139 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; 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;

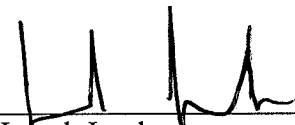
AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

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:

  
\_\_\_\_\_  
Joseph Jacobson

State/Commonwealth of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss

On this \_\_\_\_ day of \_\_\_\_\_, 2011, before me, the undersigned notary public, personally appeared Joseph Jacobson, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person whose name is signed on the preceding or attached document in my presence.

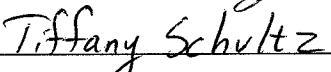
\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

**WITNESS**

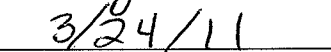
Witness Signature:



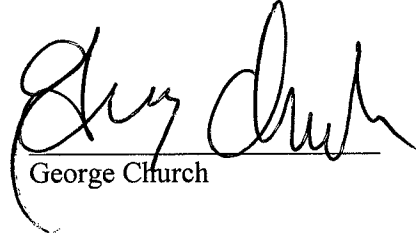
Witness Name:



Witness Date:

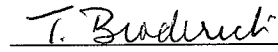


Inventor:

  
George Church

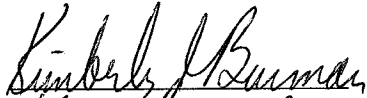
State/Commonwealth of )  
County of SUFFOLK ) ss

On this 10 day of MARCH, 2011, before me, the undersigned notary public, personally appeared George Church, proved to me through satisfactory evidence of identification, which were KNOWN TO ME, to be the person whose name is signed on the preceding or attached document in my presence.

  
Notary Public  
My Commission Expires: 8/12/17

**WITNESS**

Witness Signature:

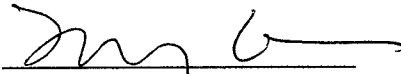


Witness Name:

Kimberly J Burman


Witness Date:

3.10.11

Inventor:   
Larry Li-yang Chu

State/Commonwealth of Massachusetts )  
County of Middlesex ) ss

On this 23<sup>rd</sup> day of MARCH, 2011, before me, the undersigned notary public, personally appeared Larry Li-yang Chu, proved to me through satisfactory evidence of identification, which were Massachusetts Driver's License, to be the person whose name is signed on the preceding or attached document in my presence.

  
Notary Public  
My Commission Expires:



**WITNESS**

Witness Signature:



Witness Name:

Sharon Keeler

Witness Date:

3/23/11