

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>CHRISTIAN KOLLER</td> <td>10/28/2013</td> </tr> <tr> <td>EARL HUBBELL</td> <td>10/28/2013</td> </tr> <tr> <td>NILS HOMER</td> <td>10/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	CHRISTIAN KOLLER	10/28/2013	EARL HUBBELL	10/28/2013	NILS HOMER	10/19/2013
Name	Execution Date								
CHRISTIAN KOLLER	10/28/2013								
EARL HUBBELL	10/28/2013								
NILS HOMER	10/19/2013								
RECEIVING PARTY DATA									
Name:	LIFE TECHNOLOGIES CORPORATION								
Street Address:	5791 VAN ALLEN WAY								
City:	CARLSBAD								
State/Country:	CALIFORNIA								
Postal Code:	92008								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14048843</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14048843				
Property Type	Number								
Application Number:	14048843								
CORRESPONDENCE DATA									
Fax Number:									
Email:	LifetechDocket@system.foundationip.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	CHRISTIAN D'AVIGNON-AUBUT								
Address Line 1:	5791 VAN ALLEN WAY								
Address Line 2:	LIFE TECHNOLOGIES CORPORATION								
Address Line 4:	CARLSBAD, CALIFORNIA 92008								
ATTORNEY DOCKET NUMBER:	LT00739								
NAME OF SUBMITTER:	ELIZABETH MORGAN								
Signature:	/Elizabeth Morgan/								
Date:	12/26/2013								

CH \$40.00 14048843

PATENT

**Total Attachments: 6**

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**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, I/we:

1. Christian KOLLER, a citizen of **DE**; having a mailing address of  
LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of **San Francisco, CA.**

2. Nils HOMER, a citizen of **CA**; having a mailing address of  
23 Varnum Street, #2, Arlington, Massachusetts 02474 ;

and a resident of **Arlington, MA.**

3. Earl HUBBELL, a citizen of **US**; having a mailing address of  
LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of **Palo Alto, CA.**

do hereby SELL, ASSIGN, AND TRANSFER to **LIFE TECHNOLOGIES CORPORATION**, (the "Assignee", a corporation of the State of Delaware) having a place of business at 5791 Van Allen Way, Carlsbad, California 92008, USA the entire right, title, and interest for the United States and all foreign countries in and to

(1) any and all inventions, improvements, know-how, and other subject matter described, disclosed, or contained (whether claimed or not) in (a) United States Non-provisional Patent Application, Serial No. 14/048,843, filed on October 8, 2013 entitled METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR REPEAT SEQUENCING, (b) all divisional, continuing, design, utility model, substitute, renewal, reissue, reexamination, and all other applications for patent which have been or shall be filed in the United States and all foreign countries that claim priority to or through, any of the foregoing applications; and (c) all original, reissued and reexamined patents which have been or shall be issued in the United States or any foreign country on or resulting from any of the applications referenced in (a) or (b);

(2) any and all inventions, improvements, know-how, and other subject matter described, disclosed, or contained (whether claimed or not) in any of the foregoing applications and patents;

(3) the right to file foreign applications under the provisions of any convention or treaty and claim priority based on any of the foregoing applications in the United States or any other country; and

(4) the copyright in any and all material described, disclosed, or contained in the foregoing applications and patents;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned; and

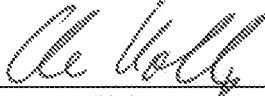
COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute any and all papers and documents (including without limitation oaths, declarations, assignments, and powers of attorney) and perform any and all acts reasonably necessary in connection with the filing, prosecution, and issuance of each of the patent applications and patents referenced herein; (2) communicate to the Assignee all facts known to the undersigned relating to each of the patent applications, patents, and improvements referenced herein, and the history thereof; and (3) generally do everything possible that the Assignee shall reasonably consider desirable to vest title in Assignee in and to each of the patent applications, patents, and improvements referenced herein and for securing, maintaining, and enforcing proper patent protections for inventions, improvements, know-how, and other subject matter referenced herein.

ASSIGNOR(S) HEREBY AUTHORIZE AND REQUEST the assignee's agents associated with customer number 52059 to insert above the filing date and application number of said application when known.

TO BE BINDING on the heirs, assigns, representatives, and successors of the undersigned and extend to the successors, assigns, and nominees of the Assignee.

SEVERABILITY. If a provision of this Assignment is or becomes illegal, invalid, or unenforceable in any jurisdiction, that shall not affect (a) the validity or enforceability in that jurisdiction

of any other provision of this Assignment, or (b) the validity or enforceability in other jurisdictions of that or any other provision of this Assignment.

Signature:   
Name (1) Christian KOLLER

Date: 10/28/2013

Signature: \_\_\_\_\_  
Name (2) Nils HOMER

Date: \_\_\_\_\_

Signature:   
Name (3) Earl HUBBELL

Date: 10/28/2013

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