

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>LAWRENCE GREENFIELD</td> <td>11/09/2013</td> </tr> <tr> <td>DOUGLAS BOST</td> <td>09/05/2013</td> </tr> </tbody> </table>		Name	Execution Date	LAWRENCE GREENFIELD	11/09/2013	DOUGLAS BOST	09/05/2013
Name	Execution Date						
LAWRENCE GREENFIELD	11/09/2013						
DOUGLAS BOST	09/05/2013						
RECEIVING PARTY DATA							
Name:	APPLIED BIOSYSTEMS LLC						
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>13959725</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13959725		
Property Type	Number						
Application Number:	13959725						
CORRESPONDENCE DATA							
Fax Number:	(760)476-6048						
Phone:	7602688709						
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	LIFE TECHNOLOGIES CORPORATION						
Address Line 1:	5791 VAN ALLEN WAY						
Address Line 4:	CARLSBAD, CALIFORNIA 92008						
ATTORNEY DOCKET NUMBER:	4648 C1						
NAME OF SUBMITTER:	BRENDA MANNON						
Signature:	/Brenda Mannon/						
Date:	12/03/2013						

CH \$40.00 13959725

Total Attachments: 5

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ASSIGNMENT

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

1. Douglas Bost, a citizen of US; having a mailing address of
820 Lurline Drive, Foster City, CA 94404

.....
and a resident of Foster City, CA.

2. Lawrence GREENFIELD, a citizen of US; having a mailing address of
550 Moreland Way, Unit 2405

.....
and a resident of Santa Clara, CA 95054.

do hereby SELL, ASSIGN, AND TRANSFER to **APPLIED BIOSYSTEMS LLC**, (the "Assignee", a limited liability company 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. 13/959,725, filed on August 5, 2013 entitled COMPOSITIONS AND METHODS OF SELECTIVE NUCLEIC ACID ISOLATION, (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) Douglas Bost

Date: _____

Signature: Lawrence Greenfield
Name (2) Lawrence GREENFIELD

Date: Nov 9, 2013

ASSIGNMENT

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

1. Douglas Bost, a citizen of **US**; having a mailing address of
820 Lurline Drive, Foster City, CA 94404

and a resident of **Foster City, CA**.

2. Lawrence GREENFIELD, a citizen of **US**; having a mailing address of

and a resident of **Eugene, OR**.

do hereby SELL, ASSIGN, AND TRANSFER to **APPLIED BIOSYSTEMS LLC**, (the "Assignee", a limited liability company 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 any and all improvements which are disclosed in United States Non-provisional Patent Application, Serial No. 13/959,725, filed on August 5, 2013 entitled COMPOSITIONS AND METHODS OF SELECTIVE NUCLEIC ACID ISOLATION, and such applications and all divisional, continuing, substitute, renewal, reissue, and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

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

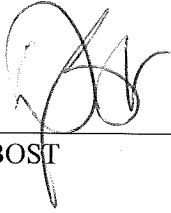
WARRANT AND COVENANT that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned; and

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 execute all divisional, continuing, substitute, renewal,

reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney, and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible for which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining, and enforcing proper patent protection for such improvements.

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.

Signature: 
Name (1) Douglas BOST

Date: 5 Sept 13

Signature: _____
Name (2) Lawrence GREENFIELD

Date: _____