

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Bin LI</td> <td>05/15/2013</td> </tr> <tr> <td>Kai Qin LAO</td> <td>04/15/2013</td> </tr> <tr> <td>Jennifer O'NEIL</td> <td>04/15/2013</td> </tr> <tr> <td>Jennifer KUNKEL</td> <td>06/26/2013</td> </tr> <tr> <td>Kellie HALEY</td> <td>04/18/2013</td> </tr> <tr> <td>Rachel KASINSKAS</td> <td>04/22/2013</td> </tr> <tr> <td>Zhaochun MA</td> <td>06/19/2013</td> </tr> <tr> <td>Pius BRZOSKA</td> <td>06/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	Bin LI	05/15/2013	Kai Qin LAO	04/15/2013	Jennifer O'NEIL	04/15/2013	Jennifer KUNKEL	06/26/2013	Kellie HALEY	04/18/2013	Rachel KASINSKAS	04/22/2013	Zhaochun MA	06/19/2013	Pius BRZOSKA	06/18/2013
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RECEIVING PARTY DATA																			
<table border="1"> <tr> <td>Name:</td> <td>LIFE TECHNOLOGIES CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>5791 Van Allen Way</td> </tr> <tr> <td>City:</td> <td>Carlsbad</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92008</td> </tr> </table>		Name:	LIFE TECHNOLOGIES CORPORATION	Street Address:	5791 Van Allen Way	City:	Carlsbad	State/Country:	CALIFORNIA	Postal Code:	92008								
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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>13828049</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13828049														
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Application Number:	13828049																		
CORRESPONDENCE DATA																			
Fax Number:	7602688393																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
Phone:	650-638-6464																		
Email:	LifetechDocket@system.foundationip.com																		
Correspondent Name:	Life Technologies Corporation																		
Address Line 1:	5791 Van Allen Way																		
Address Line 2:	IP Department																		
Address Line 4:	Carlsbad, CALIFORNIA 92008																		

ATTORNEY DOCKET NUMBER:	LT00406.1
NAME OF SUBMITTER:	Mila T. Kasan
Signature:	/Mila T. Kasan/
Date:	06/27/2013

Total Attachments: 24

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ASSIGNMENT

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

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Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;
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7. Zhaochun MA, a citizen of CN; having a mailing address of
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and a resident of **Sunnyvale, CA.**

8. Pius BRZOSKA, a citizen of **DE**; having a mailing address of
Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;
and a resident of **Woodside, 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 any and all improvements which are disclosed in United States Non-provisional Patent Application, Serial No. 13/828,049, filed on March 14, 2013 entitled METHODS, COMPOSITIONS, SYSTEMS, APPARATUSES AND KITS FOR NUCLEIC ACID AMPLIFICATION, 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: Bin Li
Name (1) Bin LI

Date: 5/15/2013

Signature: _____
Name (2) Kai Qin LAO

Date: _____

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Date: _____

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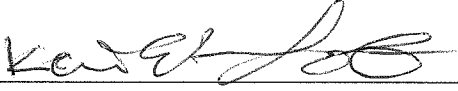
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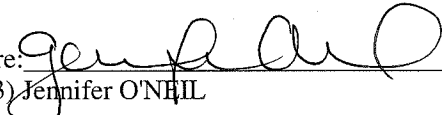
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Docket No. LT00406.1
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8. Pius BRZOSKA, a citizen of **DE**; having a mailing address of
Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;
and a resident of **Woodside, 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 any and all improvements which are disclosed in United States Non-provisional Patent Application, Serial No. 13/828,049, filed on March 14, 2013 entitled METHODS, COMPOSITIONS, SYSTEMS, APPARATUSES AND KITS FOR NUCLEIC ACID AMPLIFICATION, 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.

Docket No. LT00406.1
Customer No. 52059

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) Bin LI

Date: _____

Signature: _____
Name (2) Kai Qin LAO

Date: _____

Signature: _____
Name (3) Jennifer O'NEIL

Date: _____

Signature: _____
Name (4) Jennifer KUNKEL

Date: _____

Signature: _____
Name (5) Kellie HALEY

Date: _____

Signature:  _____
Name (6) Rachel KASINSKAS

Date: 4/22/2013

Signature: _____
Name (7) Zhaochun MA

Date: _____

Signature: _____
Name (8) Pius BRZOSKA

Date: _____

ASSIGNMENT

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

1. Bin LI, a citizen of CN; having a mailing address of
Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;
and a resident of **Palo Alto, CA.**

2. Kai Qin LAO, a citizen of US; having a mailing address of
Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;
and a resident of **Pleasanton, CA.**

3. Jennifer O'NEIL, a citizen of US; having a mailing address of
Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;
and a resident of **Peabody, MA.**

4. Jennifer KUNKEL, a citizen of US; having a mailing address of
44C Friend Street, Amesbury, Massachusetts 01913;
and a resident of **Amesbury, MA.**

5. Kellie HALEY, a citizen of US; having a mailing address of
9 S. Shore Avenue, Peabody Massachusetts 01960;
and a resident of **Peabody, MA.**

6. Rachel KASINSKAS, a citizen of US; having a mailing address of
97 Market Street, Amesbury, Massachusetts 01913;
and a resident of **Amesbury, MA.**

7. Zhaochun MA, a citizen of CN; having a mailing address of
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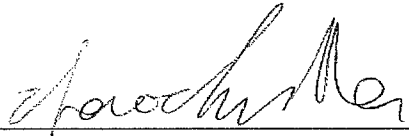
Date: _____

Signature: _____
Name (5) Kellie HALEY

Date: _____

Signature: _____
Name (6) Rachel KASINSKAS

Date: _____

Signature:  _____
Name (7) Zhaochun MA

Date: 6/19/2013

Signature: _____
Name (8) Pius BRZOSKA

Date: _____

ASSIGNMENT

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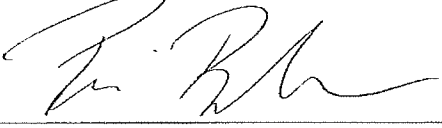
Date: _____

Signature: _____
Name (6) Rachel KASINSKAS

Date: _____

Signature: _____
Name (7) Zhaochun MA

Date: _____

Signature:  _____
Name (8) Pius BRZOSKA

Date: 6/18/2013