

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUA YU	06/15/2016
THEO NIKIFOROV	08/15/2016
ABRAHAM ROSENBAUM	06/15/2016
RECEIVING PARTY DATA	
Name:	LIFE TECHNOLOGIES CORPORATION
Street Address:	5823 NEWTON DRIVE
City:	CARLSBAD
State/Country:	CALIFORNIA
Postal Code:	92008
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16308803
CORRESPONDENCE DATA	
Fax Number:	(760)476-6048
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	650-266-5805
Email:	PatentDocketing@thermofisher.com
Correspondent Name:	LIFE TECHNOLOGIES CORPORATION
Address Line 1:	5823 NEWTON DRIVE
Address Line 2:	IP DEPARTMENT
Address Line 4:	CARLSBAD, CALIFORNIA 92008
ATTORNEY DOCKET NUMBER:	LT01140US
NAME OF SUBMITTER:	MILA T. KASAN
SIGNATURE:	/Mila T. Kasan/
DATE SIGNED:	07/31/2019
Total Attachments: 6	
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ASSIGNMENT

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

1. Hua YU, a citizen of **P.R. China**; having a mailing address of
Life Technologies Corporation, 5823 Newton Drive, Carlsbad, California 92008
and a resident of **Guilford, CT**.
2. Theo NIKIFOROV, a citizen of **US**; having a mailing address of
and a resident of **Carlsbad, CA**.
3. Abraham ROSENBAUM, a citizen of **US**; having a mailing address of
Life Technologies Corporation, 5823 Newton Drive, Carlsbad, California 92008
and a resident of **Waterbury, CT**.

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 5823 Newton Drive, 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 Provisional Patent Application Serial No. 62/348,402 filed June 10, 2016 entitled METHODS AND COMPOSITIONS FOR NUCLEIC ACID AMPLIFICATION**, (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;

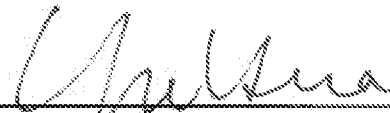
AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

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.

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) Hua YU

Date: 6/15/2016

Signature: _____
Name (2) Theo NIKIFOROV

Date: _____

Signature: 
Name (3) Abraham ROSENBAUM

Date: 6/15/16

ASSIGNMENT

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1. Hua YU, a citizen of **P.R. China**; having a mailing address of
Life Technologies Corporation, 5823 Newton Drive, Carlsbad, California 92008
and a resident of **Guilford, CT**.
2. Theo NIKIFOROV, a citizen of **US**; having a mailing address of
2267 Galena Avenue, Carlsbad, CA 92009
and a resident of **Carlsbad, CA**.
3. Abraham ROSENBAUM, a citizen of **US**; having a mailing address of
Life Technologies Corporation, 5823 Newton Drive, Carlsbad, California 92008
and a resident of **Waterbury, CT**.

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(1) any and all inventions, improvements, know-how, and other subject matter described, disclosed, or contained (whether claimed or not) in (a) **United States Provisional Patent Application Serial No. 62/348,402 filed June 10, 2016 entitled METHODS AND COMPOSITIONS FOR NUCLEIC ACID AMPLIFICATION**, (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.

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Signature: _____
Name (1) Hua YU

Date: _____

Signature: Theo Nikiforov
Name (2) Theo NIKIFOROV

Date: 8/15/2016

Signature: _____
Name (3) Abraham ROSENBAUM

Date: _____