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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------|----------------|
| LINDA LEE | 04/17/2012 |
| SAM WOO | 04/15/2012 |
| PETER MA | 04/23/2012 |

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: | 16247267 |

CORRESPONDENCE DATA

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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.
Phone: (760)603-7200
Email: PatentDocketing@thermofisher.com
Correspondent Name: LIFE TECHNOLOGIES CORPORATION
Address Line 1: 5823 NEWTON DRIVE
Address Line 4: CARLSBAD, CALIFORNIA 92008

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|--------------------------------|------------------|
| ATTORNEY DOCKET NUMBER: | LT00318.1DIV2 |
| NAME OF SUBMITTER: | GRACIE SEGOVIA |
| SIGNATURE: | /Gracie Segovia/ |
| DATE SIGNED: | 01/08/2020 |

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. Linda LEE, a citizen of **US**; having a mailing address of
2680 Ramona Street, Palo Alto, California 94306;

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

2. Sam WOO, a citizen of **US**; having a mailing address of
450 Carlos Avenue, Redwood City, California 94061;

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

3. Peter MA, a citizen of **US**; having a mailing address of
Life Technologies Corp., 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of **Cupertino, CA.**

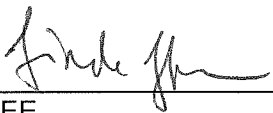
do hereby SELL, ASSIGN, AND TRANSFER to **LIFE TECHNOLOGIES CORPORATION**, (the "Assignee", a corporation of the State of Delaware) having a place of business at 5791 Van Allen Way, Carlsbad, California 92008, USA, the entire right, title, and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in United States Provisional Patent Application, Serial No. 61/407,899, filed Oct 28, 2010; International Patent Application No. PCT/US11/58474, filed on October 28, 2011; United States Non-provisional Patent Application, Serial No. 13/284,839, filed October 28, 2011 and in United States Non-provisional Patent Application, Serial No. 13/397,626, filed on February 15, 2012 entitled CHEMICALLY-ENHANCED PRIMER COMPOSITIONS, METHODS AND KITS, 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.

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) Linda LEE

Date: 4/17/2012

Signature: _____
Name (2) Sam WOO

Date: _____

Signature: _____
Name (3) Peter MA

Date: _____

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Signature: _____
Name (1) Linda LEE

Date: _____

Signature:  _____
Name (2) Sam WOO

Date: 4-15-12

Signature: _____
Name (3) Peter MA

Date: _____

ASSIGNMENT

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Signature: _____
Name (1) Linda LEE

Date: _____

Signature: _____
Name (2) Sam WOO

Date: _____

Signature: Peter Ma
Name (3) Peter MA

Date: 4-23-12