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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6459771

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                   |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                       |
| <b>CONVEYING PARTY DATA</b>   |                                  |
| <b>Name</b>   | <b>Execution Date</b>            |
| SHIAW-MIN CHEN  | 03/15/2012                       |
| ELANA SWARTZMAN   | 03/14/2012                       |
| DAVID RUFF  | 03/15/2012                       |
| MARK SHANNON  | 03/15/2012                       |
| JULIA LU  | 03/12/2012                       |
| STEPHEN HENDRICKS   | 04/12/2012                       |
| <b>RECEIVING PARTY DATA</b>   |                                  |
| <b>Name:</b>  | LIFE TECHNOLOGIES CORPORATION    |
| <b>Street Address:</b>  | 5823 NEWTON DRIVE                |
| <b>City:</b>  | CARLSBAD                         |
| <b>State/Country:</b>   | CALIFORNIA                       |
| <b>Postal Code:</b>   | 92008                            |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                  |
| <b>Property Type</b>  | <b>Number</b>                    |
| <b>Application Number:</b>  | 16656839                         |
| <b>CORRESPONDENCE DATA</b>  |                                  |
| <b>Fax Number:</b>  | (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> |                                  |
| <b>Phone:</b>   | 650-266-5805                     |
| <b>Email:</b>   | PatentDocketing@thermofisher.com |
| <b>Correspondent Name:</b>  | LIFE TECHNOLOGIES CORPORATION    |
| <b>Address Line 1:</b>  | 5823 NEWTON DRIVE                |
| <b>Address Line 2:</b>  | IP DEPARTMENT                    |
| <b>Address Line 4:</b>  | CARLSBAD, CALIFORNIA 92008       |
| <b>ATTORNEY DOCKET NUMBER:</b>  | LT00412CON2                      |
| <b>NAME OF SUBMITTER:</b>   | MILA T. KASAN                    |
| <b>SIGNATURE:</b>   | /Mila T. Kasan/                  |
| <b>DATE SIGNED:</b>   | 12/18/2020                       |

**Total Attachments: 9**

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**ASSIGNMENT**

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

1. Shiaw-Min CHEN, a citizen of **US**; having a mailing address of  
Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008;  
and a resident of **Fremont, CA**.

2. Elana SWARTZMAN, a citizen of **US**; having a mailing address of  
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5. Julia LU, a citizen of **US**; having a mailing address of  
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and a resident of \_\_\_\_\_.

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Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008;  
and a resident of **Los Gatos, 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. 61/433,475, filed January 17, 2011;


International Patent Application No. PCT/US2012/021585, filed on January 17, 2012; and in United States Non-provisional Patent Application, Serial No. 13/352,237, filed on January 17, 2012 entitled WORKFLOW FOR DETECTION OF LIGANDS USING NUCLEIC ACIDS, 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;

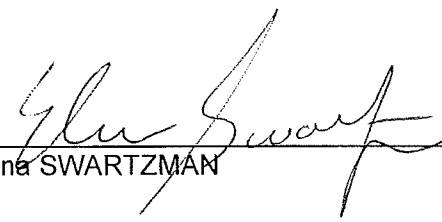
WARRANT AND COVENANT that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned; and

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.

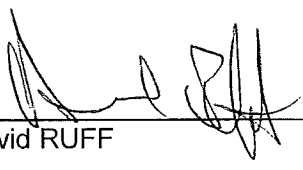
TO BE BINDING on the heirs, assigns, representatives, and successors of the undersigned and extend to the successors, assigns, and nominees of the Assignee.

Signature:   
Name (1) Shiao-Min CHEN

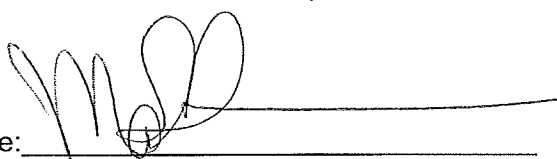
Date: 3/15/2012

Signature:   
Name (2) Elana SWARTZMAN

Date: 3/14/2012

Signature:   
Name (3) David RUFF

Date: 3/15/2012

Signature:   
Name (4) Mark SHANNON

Date: 3/15/2012

Signature: \_\_\_\_\_  
Name (5) Julia LU

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

Signature: \_\_\_\_\_  
Name (6) Stephen HENDRICKS

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

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1009 E. CAPITOL EXPRESSWAY #424 SAN JOSE, CA 95124  
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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.

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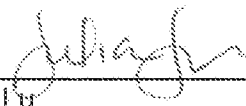
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Name (5) Julia Lu

Date: 12/12/2012

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Date: 4/12/2012