504679057 12/08/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4725779

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GUOBIN LUO	10/10/2014
MARINA SEDOVA	10/20/2014
DAVID LIGHT	10/28/2014
RYAN JONES	10/13/2014
MOHAMMAD ALANJARY	10/14/2014

RECEIVING PARTY DATA

Name:	LIFE TECHNOLOGIES CORPORATION
Street Address:	5791 VAN ALLEN WAY
City:	CARLSBAD
State/Country:	CALIFORNIA
Postal Code:	92008

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15785579

CORRESPONDENCE DATA

Fax Number:

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.

Email: lsgdocketing@thermofisher.com

Correspondent Name: CAROLYN KOENIG **Address Line 1:** 5823 NEWTON DRIVE

Address Line 2: LIFE TECHNOLOGIES CORPORATION

Address Line 4: CARLSBAD, CALIFORNIA 92008

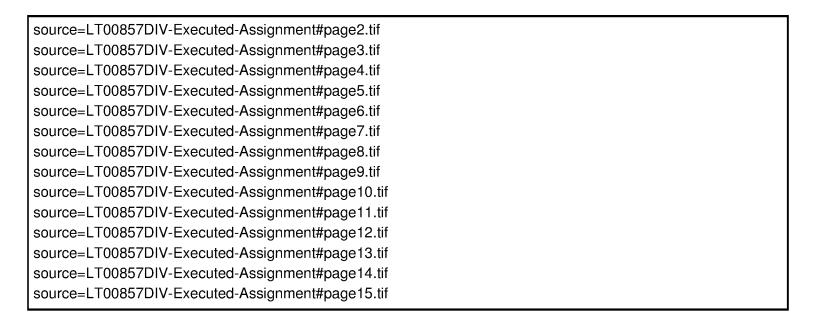
ATTORNEY DOCKET NUMBER:	LT00857DIV
NAME OF SUBMITTER:	ELIZABETH MORGAN
SIGNATURE:	/Elizabeth Morgan/
DATE SIGNED:	12/08/2017

Total Attachments: 15

source=LT00857DIV-Executed-Assignment#page1.tif

PATENT REEL: 044804 FRAME: 0352

504679057



ASSIGNMENT

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

1. Guobin LUO, a citizen of CN; having a mailing address of

Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Oceanside, CA.

2. Marina SEDOVA, a citizen of US; having a mailing address of

Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Foster City, CA.

3. David LIGHT, a citizen of US; having a mailing address of

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and a resident of New Haven, CT.

4. Ryan JONES, a citizen of US; having a mailing address of

Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of New Haven, CT.

5. Mohammad ALANJARY, a citizen of US; having a mailing address of

805 Montview Dr., Escondido, California 92025;

and a resident of Escondido, 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

(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. 14/485,282, filed on September 12, 2014 entitled Device Preparation Using Condensed Nucleic Acid Particles, (b) all divisional, continuing, design, utility model, substitute, renewal, reissue, reexamination, and all other applications for patent which

1 of 3

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.

2 of 3

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: Company Com	Dale: Oct 10, 2014
Signature:Name (2) Marina SEDOVA	Date:
Signature:Name (3) David LIGHT	Date:
Signature:Name (4) Ryan JONES	Date:
Signature: Name (5) Mohammad ALANJARY	Date:

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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

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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.

2 of 3

PATENT

REEL: 044804 FRAME: 0358

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

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) Guobin LUO	Date:
Signature: Me De Name (2) Marina SEDOVA	Date: 10-20-2014
Signature:Namo (3) David LIGHT	Date:
Signature:Name (4) Ryan JONES	Date:
Signature:Name (5) Mohammad ALANJARY	Date:

ASSIGNMENT

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- 5. Mohammad ALANJARY, a citizen of **US**; having a mailing address of 805 Montview Dr., Escondido, California 92025;

and a resident of Escondido, 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

(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. 14/485,282, filed on September 12, 2014 entitled Device Preparation Using Condensed Nucleic Acid Particles, (b) all divisional, continuing, design, utility model, substitute, renewal, reissue, reexamination, and all other applications for patent which

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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

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(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

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(4) the copyright in any and all material described, disclosed, or contained in the

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patents granted on such improvements to the Assignee;

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Signature: Name (1) Guobin LUO	Date:
Signature: Name (2) Marina SEDOVA	Date:
Signature: Signature: Name (3) David LIGHT	Date: 10-28-14
Signature: Name (4) Ryan JONES	Date:
Signature: Name (5) Mohammad ALANJARY	Date:

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PATENT

REEL: 044804 FRAME: 0364

State of Combined 1995	Date:
State (2) Marina SEDONA	Desc
Signature Same (5) David LifeHT	Date
Summer of the Su	Date (2-1) 2-2-1
Signature Vance (5) Mohammad ALANJARY	Date

3.003

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Signature:	Date:
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Signature:	Date:
Signature:Name (2) Marina SEDOVA	
Signature:	Date:
Name (3) David LIGHT	
Signature	Date:
Name (4) Ryan JONES	
Signature:	Date: / # - / 4 - 2014
Name (5) Mohammad ALANJARY	Date:
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3 of 3

PATENT REEL: 044804 FRAME: 0368

RECORDED: 12/08/2017