PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6899781

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| TOUMY GUETTOUCHE | 03/14/2016 |
| RUI CHEN | 09/14/2016 |
| AARON RICHARDSON | 09/14/2016 |

RECEIVING PARTY DATA

| Name: | ROCHE SEQUENCING SOLUTIONS, INC. | |
|-----------------|----------------------------------|--|
| Street Address: | 4300 HACIENDA DR. | |
| City: | PLEASANTON | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 94588 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16252558 |

CORRESPONDENCE DATA

Fax Number: (925)225-1128

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: 925-251-6721

Email: stephanie.schulman@roche.com

Correspondent Name: STEPHANIE SCHULMAN **Address Line 1:** 4300 HACIENDA DR.

Address Line 4: PLEASANTON, CALIFORNIA 94588

| ATTORNEY DOCKET NUMBER: | P33719-US-1 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | ERIC GRANT LEE |
| SIGNATURE: | /Eric Grant Lee/ |
| DATE SIGNED: | 09/03/2021 |

Total Attachments: 2

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PATENT 506852960 REEL: 057379 FRAME: 0630

ASSIGNMENT AGREEMENT

I/We, the undersigned

Toumy Guettouche, employed by Roche Sequencing Solutions, Inc. Pleasanton, California, USA

Rui Chen, employed by Roche Sequencing Solutions, Inc. Pleasanton, California, USA

Aaron Richardson, employed by Roche Sequencing Solutions, Inc. Pleasanton, California, USA

hereinafter ASSIGNOR(S), herewith declare that I am/we are joint inventor(s) together with

of the invention entitled:

ASYMMETRIC TEMPLATES AND ASYMMETRIC METHOD OF NUCLEIC ACID SEQUENCING

for which (a) priority application(s) was (were) filed with the

United States Patent Office

as outlined below:

Case No.CountryFiling DateSerial No.P33719-USUnited States18 July 201662/363653

ASSIGNOR(S) acknowledge(s) the previous transfer to

Roche Sequencing Solutions, Inc 4300 Hacienda Drive Pleasanton California 94588 United States of America

hereinafter ASSIGNEE, of all right, title, and interest in, to, and deriving from the inventions disclosed in the priority application(s) set forth above by operation of law, contract, or otherwise.

As far as right, title, and interest of the ASSIGNOR(S) in, to, and deriving from the inventions disclosed in the patent application(s) set forth above may not have been transferred to ASSIGNEE, ASSIGNOR(S) herewith assign(s) to ASSIGNEE all right, title, and interest in, to, and deriving from the invention and to the above priority application(s), including the right to claim priority.

The assignment of the rights of the CO-INVENTOR(S) is subject to a separate assignment agreement. ASSIGNOR(S) explicitly approve(s) that assignment.

ASSIGNEE by virtue of this assignment thereof shall have the exclusive right and is ASSIGNEE by virtue of this assignment thereof shall have the exclusive right and is fully entitled to claim priority of the priority application(s) set forth above, to apply for, obtain, and own patents worldwide in its own name and at its own costs that claim priority to and are based in whole or in part on the priority application(s), including any and all divisions, reissues, reexaminations, continuations, continuation-in-part, conversions and extensions thereof for

PATENT REEL: 057379 FRAME: 0631 the full term or terms for which the same may be granted, and to maintain any patent granted thereupon and to discontinue any patents or patent applications as it deems appropriate.

ASSIGNEE and ASSIGNOR hereby acknowledge, confirm, and agree that ASSIGNOR has been fully and adequately compensated for all rights granted or assigned to ASSIGNEE hereunder.

This agreement shall be governed and construed in accordance with substantive laws of Switzerland, with the exclusion of the Vienna Convention on the International Sale of Goods dated April 11, 1980. The competent courts of Basel City, Switzerland shall have exclusive jurisdiction.

ASSIGNOR(S)

7/eusml= 03/14/16

Place, Date

Neasahm 09/14/2016

Place, Date

Pleasanton 09/14/16

Place, Date

LONNA METLONCHE

MUI CHEN

AARON BICHARDSON

ASSIGNEE

Roche Sequencing Solutions, Inc.

Pleasanton, CA

Place, Date

01/28/16

Suja Subramániam, Senior Director

PATENT REEL: 057379 FRAME: 0632