

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4810116

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ZELJKO DZAKULA	04/22/2015
DIRK VAN DEN BOOM	04/18/2014
CHARLES R CANTOR	04/18/2014
SUNG KYUN KIM	04/09/2014
COSMIN DECIU	04/11/2014
RECEIVING PARTY DATA	
Name:	SEQUENOM, INC.
Street Address:	3995 JOHN HOPKINS COURT
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15647148
CORRESPONDENCE DATA	
Fax Number:	(858)623-3224
<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:	8586233240
Email:	skwiatkowski@grantip.com
Correspondent Name:	GRANT IP INC. C/O CPA GLOBAL
Address Line 1:	900 SECOND AVE SOUTH
Address Line 2:	STE 600
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402
ATTORNEY DOCKET NUMBER:	PLA-6036-CT
NAME OF SUBMITTER:	KARI A. DICKINSON
SIGNATURE:	/Kari A. Dickinson/
DATE SIGNED:	02/05/2018
Total Attachments: 26	

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT3682196

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the STATE OF INCORPORATION OF ASSIGNEE. SEE ATTACHED DECLARATION FOR CORRECTION OF STATE OF INCORPORATION OF ASSIGNEE previously recorded on Reel 035048 Frame 0261. Assignor(s) hereby confirms the SEE ATTACHED DECLARATION.

CONVEYING PARTY DATA

Name	Execution Date
DIRK JOHANNES VAN DEN BOOM	04/18/2014
CHARLES CANTOR	04/18/2014
SUNG KYUN KIM	04/09/2014
ZELJKO DZAKULA	04/23/2014
COSMIN DECIU	04/11/2014

RECEIVING PARTY DATA

Name:	SEQUENOM, INC.
Street Address:	3595 JOHN HOPKINS COURT
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14350052

CORRESPONDENCE DATA

Fax Number: (858)623-3224
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: 8586233229
Email: skwiatkowski@grantip.com
Correspondent Name: GRANT IP INC./ C/O PORTFOLIO IP
Address Line 1: P.O. BOX 52050
Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	PLA-6036-US
NAME OF SUBMITTER:	KARI A. DICKINSON
SIGNATURE:	/Kari A. Dickinson/
DATE SIGNED:	01/05/2016

ASSIGNMENT AND AGREEMENT

WHEREAS, Dirk Johannes VAN DEN BOOM of 458 E. Glaucus Street, Encinitas, California 92024 USA; Charles R. CANTOR of 526 Stratford Court #E, Del Mar, California 92014 USA; Sung Kyun KIM of 662 Glenmore Boulevard, Glendale, California 91206; Zeljko DZAKULA of 12830 Sundance Avenue, San Diego, California 92129; and Cosmin DECIU of 10545 Sea Mist Way, San Diego, California 92121 USA (hereinafter referred to singly and collectively as "Assignor") have invented a certain invention entitled **METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS** for which United States Patent Application No. 14/350,052 was filed on April 4, 2014; and

WHEREAS, SEQUENOM, INC., a corporation duly organized and existing under the laws of the State of ~~California~~ ^{Delaware}, and having its principal place of business at 3595 John Hopkins Court, San Diego, California 92121 USA (hereinafter referred to as "Assignee") is desirous of acquiring the entire interest therein;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto Assignee, its successors, assigns and nominees, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application(s) and all other applications for patent and patents in any and all countries and jurisdictions for the above-identified invention or inventions and all improvements and modifications thereof, (c) all patents which may issue from said applications in any country or jurisdiction, (d) all divisions, continuations, reissues, and extensions of said applications and patents, and (e) the right to claim for any of said applications the full benefits and rights to priority resulting from filing any of the applications, including, without limitation, rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by Assignee, its successors, assigns and nominees, to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention, or improvement or modification thereof, or resulting therefrom, to Assignee as assignee of the entire interest, or its successors, assigns or nominees.

Assignor hereby agrees (a) to communicate to Assignee, its successors and assigns, or their representatives or agents, all facts and information known or available to Assignor respecting said invention or inventions, improvements, and modifications, including, without limitation, evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; (b) to testify in person or by affidavit as

required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by Assignee, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to Assignee, its successors, assigns and nominees, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

Assignor hereby represents and warrants that (a) Assignor has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein to Assignee; (b) Assignor has no obligation to sell, assign or transfer any right, title or interest herein to an entity other than Assignee; (c) that Assignor has not executed and will not execute any document or instrument in conflict herewith; (d) no consents of any other parties are necessary or appropriate under any agreements regarding the inventions, applications or patents described above for the assignment of Assignor's entire right, title and interest herein to be legally effective; and (e) to the best of Assignor's knowledge, upon consummation of this Agreement, Assignee will have good and marketable title to the inventions, applications and patents described above, free and clear of any and all encumbrances, pledges, security interests, licenses or charges of any nature whatsoever.

Assignor hereby grants to the law firm of Grant IP, Inc. the power and authority to insert in this Assignment any further identification, which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Assignor understands and agrees that the attorneys and agents of the law firm of Grant IP, Inc. do not personally represent Assignor or Assignor's legal interests, but instead represent the interests of Assignee; since said attorneys and agents cannot provide legal advice to Assignor with respect to this Assignment, Assignor acknowledges its right to seek its own independent legal counsel.

[INTENTIONALLY LEFT BLANK]

Executed this 11th day of April, 2014

Cosmin DECIU

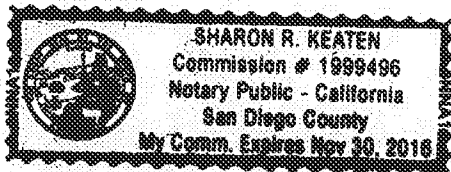
Cosmin DECIU

STATE OF CALIFORNIA)
) ss:
COUNTY OF SAN DIEGO)

On this 11th day of April, 2014, before me, Sharon R. Keaten
Notary Public, personally appeared Cosmin DECIU who proved to me on the basis of
satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within
instrument and acknowledged to me that he/she/they executed the same in his/her/their
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the
instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Sharon R. Keaten
Notary Public in and for said County and State

(Seal)

My Commission Expires: 11-30-16

DECLARATION FOR CORRECTION OF ASSIGNMENT BY ASSIGNEE

This declaration is directed to United States patents and patent applications listed in attached Exhibit A.

As the below named representative of SEQUENOM, INC., I hereby declare that:

The original assignment documents recorded for the patents and patent applications listed in attached Exhibit A contained a typographical error regarding the state of incorporation for SEQUENOM, INC. Specifically, the original documents stated: "SEQUENOM, INC., a corporation duly organized and existing under the laws of the State of California" (emphasis added). Assignment documents pertaining to matters referenced in Exhibit A are corrected to read: "SEQUENOM, INC., a corporation duly organized and existing under the laws of the State of Delaware" (emphasis added). The incorporation of SEQUENOM, INC. in the State of Delaware was publicly known at the time the original assignment documents were executed, as evidenced by the Delaware Secretary of State Certificate in attached Exhibit B.

The original assignment documents recorded for certain patent applications listed in attached Exhibit A contained a further typographical error regarding the spelling of assignee's name. Specifically, the original documents listed the assignee as "Sequenome Inc." The assignment documents are corrected herein to read: "SEQUENOM, INC." The correct spelling of the name of the assignee was publicly known at the time the original assignment documents were executed, as evidenced by the Delaware Secretary of State Certificate in attached Exhibit B.

At least one named inventor for the patents and patent applications listed in attached Exhibit A is no longer employed by SEQUENOM, INC. and is not readily available to correct the original assignment document(s).

Pursuant to MPEP 323.01(b), assignee SEQUENOM, INC. requests correction.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF REPRESENTATIVE	FIRST NAME John	MIDDLE INITIAL	LAST NAME Peterson
TITLE	Associate General Counsel for SEQUENOM, INC.		
SIGNATURE: <u>John Peterson</u>	DATE: <u>Nov. 12, 2015</u>		

ASSIGNMENT AND AGREEMENT

WHEREAS, Dirk Johannes VAN DEN BOOM of 458 E. Glaucus Street, Encinitas, California 92024 USA; Charles R. CANTOR of 526 Stratford Court #E, Del Mar, California 92014 USA; Sung Kyun KIM of 662 Glenmore Boulevard, Glendale, California 91206; Zeljko DZAKULA of 12830 Sundance Avenue, San Diego, California 92129; and Cosmin DECIU of 10545 Sea Mist Way, San Diego, California 92121 USA (hereinafter referred to singly and collectively as "Assignor") have invented a certain invention entitled **METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS** for which United States Patent Application No. 14/350,052 was filed on April 4, 2014; and

WHEREAS, SEQUENOM, INC., a corporation duly organized and existing under the laws of the State of California, and having its principal place of business at 3595 John Hopkins Court, San Diego, California 92121 USA (hereinafter referred to as "Assignee") is desirous of acquiring the entire interest therein;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto Assignee, its successors, assigns and nominees, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application(s) and all other applications for patent and patents in any and all countries and jurisdictions for the above-identified invention or inventions and all improvements and modifications thereof, (c) all patents which may issue from said applications in any country or jurisdiction, (d) all divisions, continuations, reissues, and extensions of said applications and patents, and (e) the right to claim for any of said applications the full benefits and rights to priority resulting from filing any of the applications, including, without limitation, rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by Assignee, its successors, assigns and nominees, to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention, or improvement or modification thereof, or resulting therefrom, to Assignee as assignee of the entire interest, or its successors, assigns or nominees.

Assignor hereby agrees (a) to communicate to Assignee, its successors and assigns, or their representatives or agents, all facts and information known or available to Assignor respecting said invention or inventions, improvements, and modifications, including, without limitation, evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; (b) to testify in person or by affidavit as

required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by Assignee, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to Assignee, its successors, assigns and nominees, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

Assignor hereby represents and warrants that (a) Assignor has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein to Assignee; (b) Assignor has no obligation to sell, assign or transfer any right, title or interest herein to an entity other than Assignee; (c) that Assignor has not executed and will not execute any document or instrument in conflict herewith; (d) no consents of any other parties are necessary or appropriate under any agreements regarding the inventions, applications or patents described above for the assignment of Assignor's entire right, title and interest herein to be legally effective; and (e) to the best of Assignor's knowledge, upon consummation of this Agreement, Assignee will have good and marketable title to the inventions, applications and patents described above, free and clear of any and all encumbrances, pledges, security interests, licenses or charges of any nature whatsoever.

Assignor hereby grants to the law firm of Grant IP, Inc. the power and authority to insert in this Assignment any further identification, which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

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Executed this 11th day of April, 2014

Cosmin DECIU

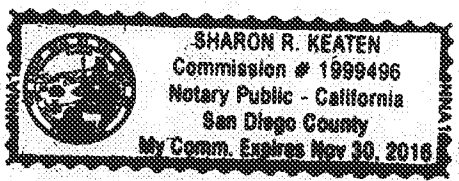
Cosmin DECIU

STATE OF CALIFORNIA)
) ss:
COUNTY OF SAN DIEGO)

On this 11th day of April, 2014, before me, Sharon R. Keaten
Notary Public, personally appeared Cosmin DECIU who proved to me on the basis of
satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within
instrument and acknowledged to me that he/she/they executed the same in his/her/their
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the
instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Sharon R. Keaten
Notary Public in and for said County and State

(Seal)

My Commission Expires: 11-30-16

EXHIBIT A

Application No.	Date Filed	Attorney Docket No.	Assignment Reel/Frame	Recordation Date	Typographical Error Corrections
14/127,912	6/20/2012	PLA-6032-US	032197/0895	2/11/2014	California to Delaware
13/797,930	3/12/2013	PLA-6034-CP	031019/0833	8/15/2013	California to Delaware
13/829,164	3/14/2013	PLA-6034-CP2t	030818/0309	7/17/2013	California to Delaware
13/829,373	3/14/2013	PLA-6034-CP3	031175/0051	9/10/2013	California to Delaware
13/669,136	11/5/2012	PLA-6034-CTt	030353/0964	5/6/2013	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
PCT/US2012/059123	10/5/2012	PLA-6034-PC	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/544,251	10/6/2011	PLA-6034-PV	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/663,477	6/22/2012	PLA-6034-PV2	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/709,899	10/4/2012	PLA-6034-PV3	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/808,027	4/3/2013	PLA-6034-PV4	031149/0304	9/6/2013	California to Delaware
61/827,323	5/24/2013	PLA-6034-PV5	030935/0788	8/2/2013	California to Delaware
14/350,052	10/5/2012	PLA-6036-US	035048/0261	2/27/2015	California to Delaware
13/754,817	1/30/2013	PLA-6040-CTt	030368/0483	5/7/2013	California to Delaware

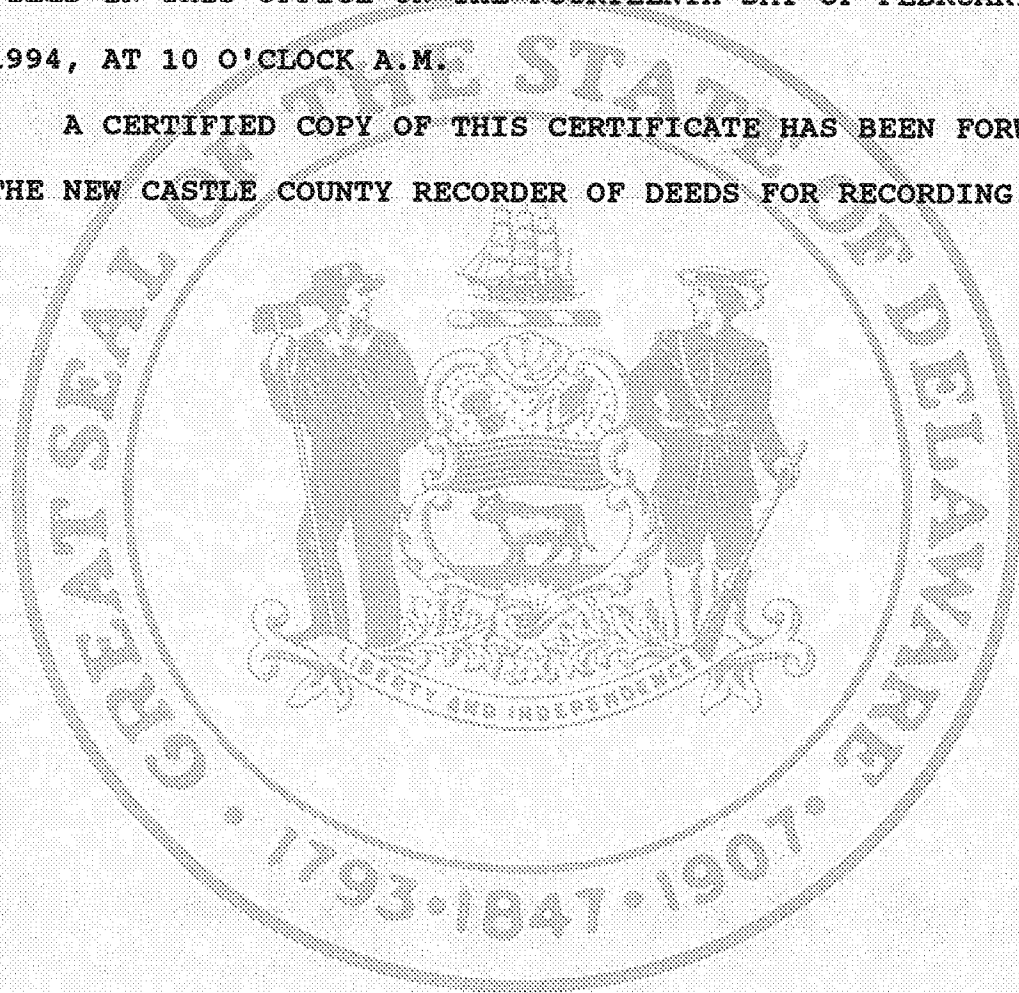
Application No.	Date Filed	Attorney Docket No.	Assignment Reel/Frame	Recordation Date	Typographical Error Corrections
[REDACTED]					

State of Delaware

Office of the Secretary of State

I, WILLIAM T. QUILLEN, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "SEQUENOM, INC.", FILED IN THIS OFFICE ON THE FOURTEENTH DAY OF FEBRUARY, A.D. 1994, AT 10 O'CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



William T. Quillen

William T. Quillen, Secretary of State

2377757 8100

944019288

AUTHENTICATION: 7029224

DATE: 02-16-94

PATENT