#### 505009693 07/18/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5056441

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MICHELE E. WISNIEWSKI	02/01/2012
WILLIAM H. KWONG	02/01/2012
FIROUZ MOHSENIAN	02/10/2012
JIAN-HUA DING	02/15/2012

## **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:	16038071

## **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: 8586233240

Email: skwiatkowski@grantip.com

GRANT IP INC. C/O CPA GLOBAL **Correspondent Name:** 900 SECOND AVE SOUTH #600 Address Line 1: Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	PLA-6026-CT4
NAME OF SUBMITTER:	GARY H. SILVERSTEIN
SIGNATURE:	/Gary Silverstein/
DATE SIGNED:	07/18/2018

## **Total Attachments: 24**

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WHEREAS, Michele E. WISNIEWSKI of 3574 Trenton Avenue, San Diego, CA, 92117, US, William H. KWONG of 4064 Huerfano Avenue #156, San Diego, CA 92117, US, Firouz MOHSENIAN of 3887 Pell Place #127, San Diego, CA, 92130, US, and Jian-Hua DING of 7984 Camino Jonata, San Diego, CA 92122, US; (hereinafter referred to singly and collectively as "Assignor") have invented a certain invention entitled NUCLEIC ACID PREPARATION COMPOSITIONS AND METHODS for which a National Stage Application for United States Letters Patent was filed on September 30, 2011 as United States Patent Application Serial No. 13/262,624, which is based on International (PCT) Patent Application No. PCT/US2010/029653 filed on April 1, 2010; and

WHEREAS, **SEQUENOM**, **INC**., a corporation duly organized and existing under the laws of the State of Delaware, and having its principal place of business at 3595 John Hopkins Court, San Diego, CA 92121 (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

ASSIGNMENT AND AGREEMENT Page 1 of 6

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 ANDERSON LLP** 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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ASSIGNMENT AND AGREEMENT Page 2 of 6

Executed this 1st day of Felovo	2012
<u> Michele</u>	E. WISNIEWSKI
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
to me, or proved to me on the basis of saf name is subscribed to the within instrume executed the same in his/her authorized of	apacity, and that by his/her signature on the behalf of which the person acted, executed the PERJURY under the laws of the State of
WITNESS my hand and official sea	NI.
ANN NICOLE MACHADO Commission # 1865326 Notary Public - California San Diego County My Comm. Expires Apr 9, 2014	Iotary Public in and for said County and State
(Seal)	
V	Ny Commission Expires: April 9, 2014

Executed this day of	October , 2011.
V	William H. KWONG
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
or proved to me on the basis of sat subscribed to the within instrument same in his/her authorized capacity person, or the entity upon behalf of	, before me,, M, M, M
WITNESS my hand and office	cial seal.
	Notary Public in and for said County and State
(Seal)	
	My Commission Expires:

Executed this day ofOctobe	<u>er</u> , 2011.
Firouz	MOHSENIAN
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
me, or proved to me on the basis of satisfiname is subscribed to the within instrume executed the same in his/her authorized of	ent and acknowledged to me that he/she capacity, and that by his/her signature on the behalf of which the person acted, executed the PERJURY under the laws of the State of
WITNESS my hand and official sea	al.
_	
	Notary Public in and for said County and State
(Seal)	M. Campaiasian Eurina
	My Commission Expires:

Executed this day ofOcto	<u>ber</u> , 2011.
Jian-ŀ	Hua DING
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
proved to me on the basis of satisfactor subscribed to the within instrument and same in his/her authorized capacity, and person, or the entity upon behalf of whice	Jian-Hua DING , personally known to me, or y evidence, to be the person whose name is acknowledged to me that he/she executed the d that by his/her signature on the instrument the ch the person acted, executed the instrument. I under the laws of the State of California that the
WITNESS my hand and official s	eal.
	Notary Public in and for said County and State
(Seal)	
	My Commission Expires:

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WHEREAS, **SEQUENOM**, **INC.**, a corporation duly organized and existing under the laws of the State of Delaware, and having its principal place of business at 3595 John Hopkins Court, San Diego, CA 92121 (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.

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ASSIGNMENT AND AGREEMENT Page 1 of 6

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ASSIGNMENT AND AGREEMENT Page 2 of 6

Executed this day of Oct	tober, 2011.
Mich	nele E. WISNIEWSKI
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
to me, or proved to me on the basis of name is subscribed to the within instru- executed the same in his/her authorize instrument the person, or the entity up	, before me,, Michele E. WISNIEWSKI, personally known satisfactory evidence, to be the person whose ment and acknowledged to me that he/she ed capacity, and that by his/her signature on the on behalf of which the person acted, executed the OF PERJURY under the laws of the State of its true and correct.
WITNESS my hand and official	seal.
	Notary Public in and for said County and State
(Seal)	
	My Commission Expires:

Executed this 1st day of February, 2012
William H. KWONG
STATE OF CALIFORNIA )
) ss: COUNTY OF SAN DIEGO )
On February 1, 2012 , before me, Ann Nicole Machado, Notary Public, personally appeared William H. KWONG, personally known to me, or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person 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.
ANN NICOLE MACHADO Commission # 1885326 Notary Public - California San Diego County My Comm. Expires Apr 9, 2014  Notary Public in and for said County and State
(Seal)
My Commission Expires: <u>Pevil 9, 2014</u>

to the d the
State

Executed this day ofOcto	<u>bber</u> , 2011.
Jian-	Hua DING
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
proved to me on the basis of satisfacto subscribed to the within instrument and same in his/her authorized capacity, ar person, or the entity upon behalf of whi	, before me,, Jian-Hua DING, personally known to me, or ry evidence, to be the person whose name is acknowledged to me that he/she executed the lad that by his/her signature on the instrument the ch the person acted, executed the instrument. I under the laws of the State of California that the instrument.
WITNESS my hand and official s	seal.
	Notary Public in and for said County and State
(Seal)	
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ASSIGNMENT AND AGREEMENT Page 2 of 6

Executed this	_ day of	October , 2011.
		Michele E. WISNIEWSKI
STATE OF CALIFOR		
COUNTY OF SAN E	) ss: DIEGO )	
to me, or proved to r name is subscribed executed the same i instrument the perso instrument. I certify	me on the bas to the within in his/her auth on, or the entit under PENAL	, before me,, edMichele E. WISNIEWSKI, personally known as of satisfactory evidence, to be the person whose instrument and acknowledged to me that he/she horized capacity, and that by his/her signature on the ty upon behalf of which the person acted, executed the LTY OF PERJURY under the laws of the State of graph is true and correct.
WITNESS my	/ hand and of	ficial seal.
		Notary Public in and for said County and State
(Seal)		
		My Commission Expires:

Executed this day of	October , 2011.
V	Villiam H. KWONG
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
or proved to me on the basis of sat subscribed to the within instrument same in his/her authorized capacity person, or the entity upon behalf of	, before me,, M, M, M
WITNESS my hand and office	cial seal.
	Notary Public in and for said County and State
(Seal)	
	My Commission Expires:

Executed this 10 day of October , 2012,
Firouz MOHSENIAN
STATE OF CALIFORNIA ) ) ss: COUNTY OF SAN DIEGO )
On February 10 <sup>44</sup> , 2012, before me, Ann Node Hachado, Notary Public, personally appeared <u>Firouz MOHSENIAN</u> , personally known to me, or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person 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.
ANN NICOLE MACHADO Commission # 1885328 Notary Public - California San Diego County
My Comm. Expires Apr 9, 2014 Notary Public in and for said County and State
(Seal) My Commission Expires: DVVI 9 2014

Executed this day ofOcto	<u>bber</u> , 2011.
Jian-	Hua DING
STATE OF CALIFORNIA )	
) ss: COUNTY OF SAN DIEGO )	
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WITNESS my hand and official s	seal.
	Notary Public in and for said County and State
(Seal)	
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		Michele E. WISNIEWSKI
STATE OF CALIFO	,	
COUNTY OF SAN I	) ss: DIEGO )	
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		Notary Public in and for said County and State
(Seal)		
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STATE OF CALIF	,	
COUNTY OF SAN	) ss: DIEGO)	
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WITNESS r	my hand and o	fficial seal.
		Notary Public in and for said County and State
(Seal)		
		My Commission Expires:

Executed this	day of	October , 2011.
		Firouz MOHSENIAN
STATE OF CALIFO	,	
COUNTY OF SAN	) ss: DIEGO)	
me, or proved to m name is subscribed executed the same instrument the pers instrument. I certify	e on the basis I to the within in his/her aut son, or the ent y under PENA	, before me,, red Firouz MOHSENIAN, personally known to so of satisfactory evidence, to be the person whose instrument and acknowledged to me that he/she thorized capacity, and that by his/her signature on the tity upon behalf of which the person acted, executed the ALTY OF PERJURY under the laws of the State of agraph is true and correct.
WITNESS m	ny hand and o	official seal.
		Notary Public in and for said County and State
(Seal)		
		My Commission Expires:

Executed this // day of February, 2012.
Jian-Hua DING
STATE OF CALIFORNIA ) ) ss:
COUNTY OF SAN DIEGO )
On 2/5//2 , before me, Abe Abanna , Notary Public, personally appeared
WITNESS my hand and official seal.
OFFICIAL SEAL ADE ISSA ALBANNA NOTARY PUBLIC CALIFORNIAS SANN DEGO COUNTY MY COMM. EXP. MAY 11, 2015  (Seal)
My Commission Expires: May 11, 2015