

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GNUBIO INC	05/08/2017
RECEIVING PARTY DATA	
Name:	BIO-RAD LABORATORIES, INC
Street Address:	1000 ALFRED NOBEL DRIVE
City:	HERCULES
State/Country:	CALIFORNIA
Postal Code:	94547
PROPERTY NUMBERS Total: 3	
Property Type	Number
Application Number:	14008998
Application Number:	13992187
Application Number:	14008964
CORRESPONDENCE DATA	
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<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>	
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Address Line 1:	BIO-RAD LABORATORIES INC
Address Line 2:	1000 ALFRED NOBEL DRIVE
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NAME OF SUBMITTER:	NAISHADH N. DESAI
SIGNATURE:	/Naishadh N. Desai/
DATE SIGNED:	06/05/2017
Total Attachments: 13	
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, **GnuBIO Inc.** ("ASSIGNOR") has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Bio-Rad Laboratories, Inc.**, a Delaware corporation, having a place of business at 1000 Alfred Nobel Drive, Hercules, California 94547 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in and to:
(a) the patents and applications identified on the attached Schedule 1 ("the PATENTS"); (b) all applications claiming priority from the PATENTS; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the PATENTS and in any underlying provisional or foreign application, together with all rights to recover damages for infringement, including damages for provisional rights; and

2. The entire worldwide right, title, and interest in all inventions and improvements ("the SUBJECT MATTER") that are disclosed in the PATENTS, including all provisional and non-provisional applications filed under 35 U.S.C. § 111, design applications filed under 35 § 171, international applications filed under the Patent Cooperation Treaty (PCT), and U.S. national phase applications filed under 35 U.S.C. § 371 ("the APPLICATIONS").

ASSIGNOR agrees that ASSIGNEE may apply for and receive patents in ASSIGNEE's own name.

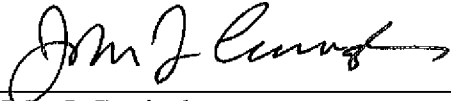
ASSIGNOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER, the APPLICATIONS and the PATENTS and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. ASSIGNOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

ASSIGNOR represents that ASSIGNOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the ASSIGNOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

ASSIGNOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

ASSIGNOR



John J. Cassingham
GnuBIO Inc.
Vice President, Treasurer and Secretary

Date of Signature

May 8, 2017

Assignee hereby accepts this Assignment



Name: Timothy S. Ernst
EVP, General Counsel and Secretary
Bio-Rad Laboratories, Inc.

Dated: _____

May 8, 2017

SCHEDULE 1

ASSIGNED PATENTS AND PATENT APPLICATIONS

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
A METHOD FOR BLOCKING POLYMERASE EXTENSION OF 3 PRIME DNA ENDS BY STEM-LOOP STRUCTURE	United States of America	61/816,431	Apr 26, 2013		
A METHOD FOR BLOCKING POLYMERASE EXTENSION OF 3 PRIME DNA ENDS BY STEM-LOOP STRUCTURE	China	201480023706.8	Apr 28, 2014		
A METHOD FOR BLOCKING POLYMERASE EXTENSION OF 3 PRIME DNA ENDS BY STEM-LOOP STRUCTURE	European Patent Office	14787882.1	Apr 28, 2014		
A METHOD FOR BLOCKING POLYMERASE EXTENSION OF 3 PRIME DNA ENDS BY STEM-LOOP STRUCTURE	United States of America	14/786,365	Apr 28, 2014		
A METHOD FOR BLOCKING POLYMERASE EXTENSION OF 3 PRIME DNA ENDS BY STEM-LOOP STRUCTURE	PCT	PCT/US2014/035730	Apr 28, 2014		
CASCADED ADDITION OF TARGET SPECIFIC UNIVERSAL ADAPTERS TO NUCLEIC ACIDS	United States of America	14/377,964	Feb 8, 2013		
CASCADED ADDITION OF TARGET SPECIFIC UNIVERSAL ADAPTERS TO NUCLEIC ACIDS	United States of America	61/598,442	Feb 14, 2012		
CASCADED ADDITION OF TARGET SPECIFIC UNIVERSAL ADAPTERS TO NUCLEIC ACIDS	PCT	PCT/US2013/025274	Feb 8, 2013		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
DROPLET VELOCITY DETECTION	United States of America	62/076,316	Nov 6, 2014		
DROPLET VELOCITY DETECTION	United States of America	14/932,537	Nov 4, 2015		
DROPLET VELOCITY DETECTION	PCT	PCT/US2015/059071	Nov 4, 2015		
FLOATING THERMAL CONTACT ENABLED PCR	PCT	PCT/US2015/038525	Jun 30, 2015		
FLOATING THERMAL CONTACT ENABLED PCR	United States of America	14/755,941	Jun 30, 2015		
FLOATING THERMAL CONTACT ENABLED PCR	United States of America	62/018,893	Jun 30, 2014		
FLOATING THERMAL CONTACT ENABLED PCR	China	201580036116	June 30, 2015		
FLOATING THERMAL CONTACT ENABLED PCR	European Patent Office	158151175	June 30, 2015	12/8/2016	
FORCED DROPLET PACKING IN LARGE MICROFLUIDIC CHANNELS	United States of America	61/909,543	Nov 27, 2013		
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	Australia	2012236713	Mar 28, 2012		
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	Canada	2,841,430	Mar 28, 2012		
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	China	2012800257560	Mar 28, 2012		
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	European Patent Office	12762825.3	Mar 28, 2012		
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	Japan	2014-502727	Mar 28, 2012		
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	Singapore	2013068812	Mar 28, 2012	193436	Apr 18, 2016
Multiple picoinjection	United States of America	61/469,528	Mar 30, 2011		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	United States of America	14/008,998	Mar 28, 2012		
INJECTION OF MULTIPLE VOLUMES INTO OR OUT OF DROPLETS	PCT	PCT/US2012/030811	Mar 28, 2012		
INTEGRATED MICROFLUIDIC SYSTEM, METHOD AND KIT FOR PERFORMING ASSAYS	China	201380058284.3	Sep 12, 2013		
INTEGRATED MICROFLUIDIC SYSTEM, METHOD AND KIT FOR PERFORMING ASSAYS	European Patent Office	13837228.9	Sep 12, 2013		
INTEGRATED MICROFLUIDIC SYSTEM, METHOD AND KIT FOR PERFORMING ASSAYS	United States of America	14/427,404	Sep 12, 2013		
INTEGRATED MICROFLUIDIC SYSTEM, METHOD AND KIT FOR PERFORMING ASSAYS	United States of America	61/700,099	Sep 12, 2012		
INTEGRATED MICROFLUIDIC SYSTEM, METHOD AND KIT FOR PERFORMING ASSAYS	PCT	PCT/US2013/059517	Sep 12, 2013		
LOW COST OPTICAL HIGH SPEED DISCRETE MEASUREMENT SYSTEM	United States of America	61/828,597	May 29, 2013		
LOW COST OPTICAL HIGH SPEED DISCRETE MEASUREMENT SYSTEM	China	201480030968.7	May 29, 2014		
LOW COST OPTICAL HIGH SPEED DISCRETE MEASUREMENT SYSTEM	European Patent Office	14804738.4	May 29, 2014		
LOW COST OPTICAL HIGH SPEED DISCRETE MEASUREMENT SYSTEM	Hong Kong	16107083.5	May 29, 2014		
LOW COST OPTICAL HIGH SPEED DISCRETE MEASUREMENT SYSTEM	United States of America	14/289,982	May 29, 2014		
LOW COST OPTICAL HIGH SPEED DISCRETE MEASUREMENT SYSTEM	PCT	PCT/US2014/039942	May 29, 2014		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	United States of America	61/469,900	Mar 31, 2011		
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	Germany	12764041.5	Mar 28, 2012	602012014172.7	Jan 20, 2016
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	European Patent Office	12764041.5	Mar 28, 2012	2691540	Jan 20, 2016
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	France	12764041.5	Mar 28, 2012	2691540	Jan 20, 2016
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	United Kingdom	12764041.5	Mar 28, 2012	2691540	Jan 20, 2016
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	United States of America	14/008,990	Mar 28, 2012		
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	PCT	PCT/US2012/030909	Mar 28, 2012		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
MANAGING VARIATION IN SPECTROSCOPIC INTENSITY MEASUREMENTS THROUGH THE USE OF A REFERENCE COMPONENT	European Patent Office	16151499.7	Mar 28, 2012		
METHOD FOR MAINTAINING HETEROGENEOUS CONCENTRATIONS OF MOLECULES IN EMULSION DROPLETS	United States of America	61/737,625	Dec 14, 2012		
METHOD FOR MAINTAINING HETEROGENEOUS CONCENTRATIONS OF MOLECULES IN EMULSION DROPLETS	PCT	PCT/US2013/075461	Dec 16, 2013		
METHOD FOR MAINTAINING HETEROGENEOUS CONCENTRATIONS OF MOLECULES IN EMULSION DROPLETS	China	201380065124.1	Dec 16, 2013		
METHOD FOR MAINTAINING HETEROGENEOUS CONCENTRATIONS OF MOLECULES IN EMULSION DROPLETS	European Patent Office	13862508.2	Dec 16, 2013		
METHOD FOR MAINTAINING HETEROGENEOUS CONCENTRATIONS OF MOLECULES IN EMULSION DROPLETS	United States of America	14/652,094	Dec 16, 2013		
SYSTEM, METHOD, AND KIT FOR SELECTIVELY PREVENTING AND ALLOWING FLOW IN A MICROFLUIDIC DEVICE	United States of America	61/884,432	Sep 30, 2013		
MICROFLUIDIC CARTRIDGE DEVICE AND METHODS OF USE AND ASSEMBLY	China	201480053755.6	Sep 30, 2014		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
MICROFLUIDIC CARTRIDGE DEVICE AND METHODS OF USE AND ASSEMBLY	European Patent Office	14848694.7	Sep 30, 2014		
MICROFLUIDIC CARTRIDGE DEVICES AND METHODS OF USE AND ASSEMBLY	United States of America	14/502,948	Sep 30, 2014		
MICROFLUIDIC CARTRIDGE DEVICES AND METHODS OF USE AND ASSEMBLY	United States of America	15/376,366	Dec 12, 2016		
MICROFLUIDIC CARTRIDGE DEVICES AND METHODS OF USE AND ASSEMBLY	PCT	PCT/US2014/058445	Sep 30, 2014		
SYSTEM, METHOD AND KIT FOR PERFORMING A CONTROLLED CHANGE IN THE CONTINUOUS PHASE VOLUME FRACTION FROM AN EMULSION IN A MICROFLUIDIC DEVICE	United States of America	61/870,336	Aug 27, 2013		
EVEN DISTRIBUTION OF DROPLETS IN CHANNELS FOR PARALLEL OPTICAL DETECTION	United States of America	61/875,312	Sep 09, 2013		
SYSTEM, METHOD, AND KIT FOR FILTERING DROPS AT HIGH FLOW RATES	United States of America	61/881,040	Sep 23, 2013		
INTERDIGITATION OF REINJECTED EMULSION LIBRARY DROPS	United States of America	61/896,766	Oct 29, 2013		
OIL AND DROP SEPARATOR TO MINIMIZE DROP INTERDIGITATION	United States of America	61/905,914	Nov 19, 2013		
HIGH SPEED SPACING	United States of America	61/905,927	Nov 19, 2013		
SYSTEM AND METHOD FOR SPACING SETS OF DROPS WITHIN A MICROFLUIDIC CHANNEL	United States of America	61/934,889	Feb 03, 2014		
MICROFLUIDIC DEVICES AND METHODS OF THEIR USE	China	201480047519.3	Aug 27, 2014		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
MICROFLUIDIC DEVICES AND METHODS OF THEIR USE	European Patent Office	14840221.7	Aug 27, 2014		
MICROFLUIDIC DEVICES AND METHODS OF THEIR USE	United States of America	14/470,860	Aug 27, 2014		
MICROFLUIDIC DEVICES AND METHODS OF THEIR USE	PCT	PCT/US2014/052995	Aug 27, 2014		
MICROFLUIDIC DEVICES AND METHODS OF THEIR USE	Hong Kong	161127874	8/27/2014		
MICROFLUIDIC DROPLET PACKING	China	201480064728.9	Nov 25, 2014		
MICROFLUIDIC DROPLET PACKING	European Patent Office	14865870.1	Nov 25, 2014		
MICROFLUIDIC DROPLET PACKING	United States of America	61/934,190	Jan 31, 2014		
MICROFLUIDIC DROPLET PACKING	United States of America	15/039,637	Nov 25, 2014		
MICROFLUIDIC DROPLET PACKING	PCT	PCT/US2014/067417	Nov 25, 2014		
MONOLITHIC MICROFLUIDIC DEVICE FOR PARALLELIZING AND SCALING OF FUNCTION	United States of America	62/237,229	Oct 5, 2015		
MONOLITHIC MICROFLUIDIC DEVICE FOR PARALLELIZING AND SCALING OF FUNCTION	United States of America	62/059,641	Oct 3, 2014		
MONOLITHIC MICROFLUIDIC DEVICE FOR PARALLELIZING AND SCALING OF FUNCTION	States of America	61/881,081	Sep 23, 2013		
MULTIPLE EXCITATION FOR LIQUID LABELING IN DROPS	United States of America	62/235,284	Sep 30, 2015		
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A TARGET PROBE, AND AN INHIBITOR	United States of America	61/420,747	Dec 07, 2010		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	Australia	2011338502	Dec 7, 2011		
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	Canada	2,820,094	Dec 7, 2011		
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	China	201180058333.4	Dec 7, 2011	ZL 2011800583334	Jan 20, 2016
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	European Patent Office	11846231.6	Dec 7, 2011		
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	Japan	2013-543299	Dec 7, 2011		
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	Singapore	2013043880	Dec 7, 2011	191725	Aug 24, 2015
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	United States of America	13/992,187	Dec 7, 2011	9,581,549	Feb 28, 2017
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	PCT	PCT/US2011/063654	Dec 7, 2011		
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	United States of America	15/408,191	Jan 17, 2017		
NUCLEIC ACID TARGET DETECTION USING A DETECTOR, A PROBE AND AN INHIBITOR	China	2016100458521	Dec 7, 2011		
REAL-TIME PCR SYSTEM USING A MICROFLUIDIC DEVICE	United States of America	62/216,116	Sep 9, 2015		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
REAL-TIME PCR SYSTEM USING A MICROFLUIDIC DEVICE	United States of America	62/047,387	Sep 8, 2014		
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	United States of America	61/469,889	Mar 31, 2011		
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	PCT	PCT/US2012/030716	Mar 27, 2012		
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	Australia	2012236748	Mar 27, 2012	2012236748	Mar 10, 2016
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	Canada	2,841,425	Mar 27, 2012		
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	China	201280018232.9	Mar 27, 2012	ZL 2012800182329	Aug 10, 2016
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	European Patent Office	12765764.1	Mar 27, 2012		
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	Japan	2014-502715	Mar 27, 2012		
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	Singapore	2013068820	Mar 27, 2012	193437	May 26, 2016
SCALABLE SPECTROSCOPIC DETECTION AND MEASUREMENT	United States of America	14/008,964	Mar 27, 2012	9228898	Jan 5, 2016
SIZE ALTERNATING INJECTION INTO DROPS TO FACILITATE SORTING	United States of America	62/012,516	Jun 16, 2014		
SIZE ALTERNATING INJECTION INTO DROPS TO FACILITATE SORTING	United States of America	15/316,128	Dec 2, 2016		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
SIZE ALTERNATING INJECTION INTO DROPS TO FACILITATE SORTING	PCT	PCT/US2015/036080	Jun 16, 2015		
SIZE ALTERNATING INJECTION INTO DROPS TO FACILITATE SORTING	China	2015800322845	6/16/2015		
SIZE ALTERNATING INJECTION INTO DROPS TO FACILITATE SORTING	European Patent Office	158097188	6/16/2015		
SPARSE IDENTITY SPACES IN DROPLET SEQUENCING	United States of America	62/258,370	Nov 20, 2015		
SPARSE IDENTITY SPACES IN DROPLET SEQUENCING	United States of America	15/353,625	Nov 16, 2016		
SPARSE IDENTITY SPACES IN DROPLET SEQUENCING	PCT	PCT/US2016/062333	Nov 16, 2016		
SYSTEM AND METHOD FOR PERFORMING DROPLET INFLATION	China	201480006226.0	Jan 27, 2014		
SYSTEM AND METHOD FOR PERFORMING DROPLET INFLATION	European Patent Office	14743656.2	Jan 27, 2014		
SYSTEM AND METHOD FOR PERFORMING DROPLET INFLATION	Hong Kong	16106251.3	Jan 27, 2014		
SYSTEM AND METHOD FOR PERFORMING DROPLET INFLATION	United States of America	61/756,598	Jan 25, 2013		
SYSTEM AND METHOD FOR PERFORMING DROPLET INFLATION	United States of America	14/762,617	Jan 27, 2014		
SYSTEM AND METHOD FOR PERFORMING DROPLET INFLATION	United States of America	15/410,913	Jan 20, 2017		
SYSTEM AND METHOD FOR PERFORMING DROPLET INFLATION	PCT	PCT/US2014/013198	Jan 27, 2014		
SYSTEMS AND METHODS FOR SEQUENCING IN EMULSION BASED MICROFLUIDICS	China	201480038087.X	May 29, 2014		
SYSTEMS AND METHODS FOR SEQUENCING IN EMULSION BASED MICROFLUIDICS	United States of America	61/828,582	May 29, 2013		

TITLE	COUNTRY	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
SYSTEMS AND METHODS FOR SEQUENCING IN EMULSION BASED MICROFLUIDICS	European Patent Office	14804752.5	May 29, 2014		
SYSTEMS AND METHODS FOR SEQUENCING IN EMULSION BASED MICROFLUIDICS	Hong Kong	16107351.0	May 29, 2014		
SYSTEMS AND METHODS FOR SEQUENCING IN EMULSION BASED MICROFLUIDICS	United States of America	14/290,867	May 29, 2014		
SYSTEMS AND METHODS FOR SEQUENCING IN EMULSION BASED MICROFLUIDICS	WO	PCT/US2014/040082	May 29, 2014		
SYSTEM, METHOD, AND KIT FOR LABELING ALTERNATING DROPS IN A MICROFLUIDIC DEVICE	United States of America	62/017,955	Jun 27, 2014		