

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	BIO-RAD QL, INC.	12/20/2011
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: 1		
	Property Type	Number
	Patent Number:	10378048
CORRESPONDENCE DATA		
Fax Number:	(415)576-0300	
<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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ATTORNEY DOCKET NUMBER:	094868-1099967 (116510US)	
NAME OF SUBMITTER:	SHERBONNE' BARNES-ANDERSON	
SIGNATURE:	/Sherbonne' Barnes-Anderson/	
DATE SIGNED:	05/09/2023	
Total Attachments: 3		
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CORPORATE TO CORPORATE ASSIGNMENT

Docket Number QLI 234

WHEREAS, Bio-Rad QL, Inc. (hereinafter "Assignor"), owns the entire right, title and interest in and to the inventions disclosed in the Application(s), and in and to all embodiments of the inventions, heretofore conceived, made or discovered (collectively hereinafter referred to as "Inventions") the following applications filed in the United States Patent Office:

Entitled:	Application No.:	Was filed on:
Droplet-based Assay System	US 61/194,043	9/23/2008
Droplet-based Assay System	US 61/206,975	2/5/2009
Droplet-based Assay System	US 61/271,538	7/21/2009
Controls and Calibrators for Tests of Nucleic Acid Amplification Performed in Droplets	US 61/275,731	9/1/2009
System for Mixing Fluids by Coalescence of Multiple Emulsions	61/275,860	9/2/2009
Cartridge with Lysis Chamber and Droplet Generator	US 61/277,249	9/21/2009
Continuous Flow Thermocycler	US 61/277,200	9/21/2009
Quantification of Droplet-based Assays	US 61/277,216	9/21/2009
Detection Systems for Droplet-based Assays	US 61/277,203	9/21/2009
Droplet Generator for Droplet-based Assays	US 61/277,204	9/21/2009
Droplet-based Assay System	US 61/277,270	9/22/2009
Droplet-based Assay System	US 12/586,626	9/23/2009
Droplet-based Assay System (Australian Application)	AU 2009297108	9/23/2009
Droplet-based Assay System (Canadian Application)	CA 2738578	9/23/2009
Droplet-based Assay System (European Application)	EP 09816582.2	9/23/2009
Droplet-based Assay System	PCT/US2009/005317	9/23/2009
System for Hot-start PCR Utilizing a Multiple Emulsion	61/309,837	3/2/2010
Emulsion Chemistry for Droplet-based Assays	61/309,845	3/2/2010
Droplet Generation For Droplet-based Assays	61/341,218	3/25/2010
Signal Detection for Droplet-based Assays	61/317,684	3/25/2010
Droplet Spacer for Droplet-based Assays	61/317,635	3/25/2010
Detection Fluids for Droplet-based Batch Assays	61/341,065	3/25/2010
System for Mixing Fluids by Coalescence of Multiple Emulsions	US 12/862,542	8/24/2010
System for Mixing Fluids by Coalescence of Multiple Emulsions	PCT/US2010/046519	8/24/2010
System for Forming an Array of Emulsions	US 12/962,507	12/7/2010
System for Transporting Emulsions From an Array to a Detector	US 12/962,511	12/7/2010
System for Droplet-based Assays Using an Array of Emulsions	US 12/962,502	12/7/2010
System for Forming an Array of Emulsions	US 12/963,523	12/8/2010
Emulsion Chemistry for Encapsulated Droplets	12/976,827	12/22/2010
Assays With Droplets Transformed Into Capsules	12/976,816	12/22/2010
Haplotype Analysis by Amplification of a Partitioned Sample	61/441,209	2/9/2011
System for Hot-start Amplification Via a Multiple Emulsion	US 13/039,233	3/2/2011
Emulsion Chemistry and Assays for Encapsulated Droplets	PCT/US2011/026901	3/2/2011
Droplet-based Assay System (Japanese Application)	JP 2011-529019	3/20/2011

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Entitled:	Application No.:	Was filed on:
Droplet-based Assay System (United Kingdom Application)	GB 1106793.1	4/20/2011
Droplet-based Assay System (Chinese Application)	CN 200980146606.3	5/13/2011
Controls and Calibrators for Tests of Nucleic Acid Amplification Performed in Droplets	US 13/245,575	9/26/2011
Cartridge with Lysis Chamber and Droplet Generator	US 13/250,815	9/30/2011
Calibrations and Controls for Droplet-based Assays	US 13/251,016	9/30/2011

(hereinafter "Application(s)").

WHEREAS, Bio-Rad Laboratories, Inc., a corporation of the State OR Commonwealth of Delaware, having a place of business at 1000 Alfred Nobel Drive, Hercules CA 94547, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Inventions, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by the inventor(s) of said Inventions, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter "Patent(s)") thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignor to have been received in full from said Assignee:

1. Said Assignor does hereby sell, assign, transfer and convey unto said Assignee its entire right, title and interest (a) in and to said Inventions and said Applications, including the right to claim priority to said Inventions and said Applications; (b) in and to all rights to all United States and corresponding non-United States patent applications and Patent(s), including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty, or otherwise; (c) in and to any and all applications filed and any and all Patent(s) granted on said Inventions in the United States, in any foreign country, or under any international convention, agreement, protocol, or treaty, including each and every application filed and any and all Patent(s) granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); and (d) in and to each and every reissue, reexamination, or extensions of any of said Patent(s).

2. Said Assignor hereby covenants and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by the Assignor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by the parties (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon the Assignor, its successors, assigns and other legal representatives.

4. Said Assignor hereby warrants and represents that the Assignor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Assignor hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.

6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.

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IN WITNESS WHEREOF, said Assignor has executed and delivered this instrument to said Assignee as of the date written below.

ASSIGNORDate: December 20, 2011By: 

Name: Anthony Fong
Title: Assistant Secretary
Company: Bio-Rad QL, Inc.

ASSIGNEEDate: December 20, 2011By: 

Name: John J. Cassingham
Title: Assistant Secretary
Company: Bio-Rad Laboratories, Inc.