

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13890715
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NAME OF SUBMITTER:	William A. Barrett
Signature:	/William A. Barrett/
Date:	07/29/2013
Total Attachments: 2 source=Assignment_signature_Fair#page1.tif source=Assignment_signature_Fair#page2.tif	

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PATENT ASSIGNMENT

This Assignment is made by Richard B. Fair, of Durham, North Carolina (hereinafter "Assignor"), to Duke University, a non-profit organization located at Durham, North Carolina (hereinafter "Assignee").

WHEREAS, Assignor has invented certain new and useful improvements concerning **Droplet-Based Affinity Assays** the invention being described in and identified by a patent application filed on May 9, 2013 as U.S. patent application number 13/890,715, which is a continuation of U.S. Patent Application No. 11/639,663, entitled "Droplet Based Affinity Assays," filed December 15, 2006, which is claims priority to and incorporates by reference provisional U.S. Patent Application Nos. 60/745,058, entitled "Filler Fluids for Droplet-Based Microfluidics" filed on April 18, 2006; 60/745,039, entitled "Apparatus and Methods for Droplet-Based Blood Chemistry," filed on April 18, 2006; 60/745,043, entitled "Apparatus and Methods for Droplet-Based PCR," filed on April 18, 2006; 60/745,059, entitled "Apparatus and Methods for Droplet-Based Immunoassay," filed on April 18, 2006; 60/745,914, entitled "Apparatus and method for Manipulating Droplets with a Predetermined Number of Cells" filed on April 28, 2006; 60/745,950, entitled "Apparatus and Methods of Sample Preparation for a Droplet Microactuator," filed on April 28, 2006; 60/746,797 entitled "Portable Analyzer Using Droplet-Based Microfluidics," filed on May 9, 2006; 60/746,801, entitled "Apparatus and Methods for Droplet-Based Immuno-PCR," filed on May 9, 2006; 60/806,412, entitled "Systems and Methods for Droplet Microactuator Operations," filed on June 30, 2006; 60/807,104, entitled "Method and Apparatus for Droplet-Based Nucleic Acid Amplification," filed on July 12, 2006.

AND, WHEREAS, Assignee desires to acquire Assignor's entire right, title and interest in the application and the invention and improvements on the invention, and in Letters Patent on the same when granted in any and all countries.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor by these presents does hereby sell, assign, transfer and convey unto the Assignee, its successors and assigns, Assignor's entire right, title, and interest in and to the application and the invention, and in any improvements on the invention previously or in the future made or acquired by Assignor, and to all rights of priority to the same pursuant to the International Convention for the Protection of Industrial

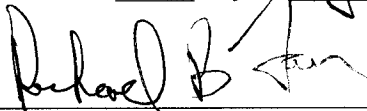
Property, and in an to any and all patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions of any United States or foreign patent application filed on the invention, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully as the same would have been held and enjoyed by Assignor if this assignment not been made.

Assignor hereby requests that said Letters Patent be issued in accordance with this Assignment.

Assignor further warrants and represents that, at the time of the execution and delivery of these presents, Assignor possesses his full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for said invention in all countries and to vest in the Assignee complete title to the invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Executed this 24 day of July, 2013.



Richard B. Fair, Ph.D.

(Seal)

Witness by:

 07/24/2013

Name

Date

 7/24/13

Name

Date