

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5406408

|   |  |
|---|--|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                           |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                               |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>                    |
| JEREMY AGRESTI  | 01/13/2010                               |
| LIANG-YIN CHU   | 11/25/2009                               |
| GEORGE M. CHURCH  | 01/08/2010                               |
| GAUTAM DANTAS   | 11/25/2009                               |
| JIN WOONG KIM   | 12/15/2009                               |
| AMY ROWAT   | 12/08/2009                               |
| MORTEN O.A. SOMMER  | 11/30/2009                               |
| DAVID A. WEITZ  | 11/30/2009                               |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | President and Fellows of Harvard College |
| <b>Street Address:</b>  | 17 Quincy Street                         |
| <b>City:</b>  | Cambridge                                |
| <b>State/Country:</b>   | MASSACHUSETTS                            |
| <b>Postal Code:</b>   | 02138                                    |
| <b>PROPERTY NUMBERS Total: 2</b>  |  |
| <b>Property Type</b>  | <b>Number</b>                            |
| Application Number:   | 15792218                                 |
| Application Number:   | 15670977                                 |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (617)495-9568                            |
| <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> |  |
| <b>Phone:</b>   | (617) 495-3067                           |
| <b>Email:</b>   | siobhan_murphy@harvard.edu               |
| <b>Correspondent Name:</b>  | KAREN SINCLAIR                           |
| <b>Address Line 1:</b>  | 1350 MASSACHUSETTS AVE                   |
| <b>Address Line 2:</b>  | HARVARD UNIVERSITY, OFFICE OF TECH. DEV. |
| <b>Address Line 4:</b>  | CAMBRIDGE, MASSACHUSETTS 02138           |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 2915                                     |
| <b>NAME OF SUBMITTER:</b>   | KAREN SINCLAIR                           |

PATENT

|   |            |
|---|------------|
| <b>SIGNATURE:</b>   | /K.S./     |
| <b>DATE SIGNED:</b>   | 03/06/2019 |
| <b>Total Attachments: 40</b><br>source=12529926_Assignment_FullyExecuted_HU#page1.tif<br>source=12529926_Assignment_FullyExecuted_HU#page2.tif<br>source=12529926_Assignment_FullyExecuted_HU#page3.tif<br>source=12529926_Assignment_FullyExecuted_HU#page4.tif<br>source=12529926_Assignment_FullyExecuted_HU#page5.tif<br>source=12529926_Assignment_FullyExecuted_HU#page6.tif<br>source=12529926_Assignment_FullyExecuted_HU#page7.tif<br>source=12529926_Assignment_FullyExecuted_HU#page8.tif<br>source=12529926_Assignment_FullyExecuted_HU#page9.tif<br>source=12529926_Assignment_FullyExecuted_HU#page10.tif<br>source=12529926_Assignment_FullyExecuted_HU#page11.tif<br>source=12529926_Assignment_FullyExecuted_HU#page12.tif<br>source=12529926_Assignment_FullyExecuted_HU#page13.tif<br>source=12529926_Assignment_FullyExecuted_HU#page14.tif<br>source=12529926_Assignment_FullyExecuted_HU#page15.tif<br>source=12529926_Assignment_FullyExecuted_HU#page16.tif<br>source=12529926_Assignment_FullyExecuted_HU#page17.tif<br>source=12529926_Assignment_FullyExecuted_HU#page18.tif<br>source=12529926_Assignment_FullyExecuted_HU#page19.tif<br>source=12529926_Assignment_FullyExecuted_HU#page20.tif<br>source=12529926_Assignment_FullyExecuted_HU#page21.tif<br>source=12529926_Assignment_FullyExecuted_HU#page22.tif<br>source=12529926_Assignment_FullyExecuted_HU#page23.tif<br>source=12529926_Assignment_FullyExecuted_HU#page24.tif<br>source=12529926_Assignment_FullyExecuted_HU#page25.tif<br>source=12529926_Assignment_FullyExecuted_HU#page26.tif<br>source=12529926_Assignment_FullyExecuted_HU#page27.tif<br>source=12529926_Assignment_FullyExecuted_HU#page28.tif<br>source=12529926_Assignment_FullyExecuted_HU#page29.tif<br>source=12529926_Assignment_FullyExecuted_HU#page30.tif<br>source=12529926_Assignment_FullyExecuted_HU#page31.tif<br>source=12529926_Assignment_FullyExecuted_HU#page32.tif<br>source=12529926_Assignment_FullyExecuted_HU#page33.tif<br>source=12529926_Assignment_FullyExecuted_HU#page34.tif<br>source=12529926_Assignment_FullyExecuted_HU#page35.tif<br>source=12529926_Assignment_FullyExecuted_HU#page36.tif<br>source=12529926_Assignment_FullyExecuted_HU#page37.tif<br>source=12529926_Assignment_FullyExecuted_HU#page38.tif<br>source=12529926_Assignment_FullyExecuted_HU#page39.tif<br>source=12529926_Assignment_FullyExecuted_HU#page40.tif |            |

## ASSIGNMENT


For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to President and Fellows of Harvard College, a Massachusetts non-profit corporation having a place of business at 17 Quincy Street; Cambridge, Massachusetts 02138, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on September 4, 2009 under No. 12/529,926, bearing Attorney Docket No. H0498.70295US01, and entitled ASSAYS AND OTHER REACTIONS INVOLVING DROPLETS, and International Patent Application No.: PCT/US2008/003185 filed March 7, 2008, bearing Attorney Docket No.: H0498.70295WO00 and entitled ASSAYS AND OTHER REACTIONS INVOLVING DROPLETS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically

including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date 1/13/2010

Inventor:   
Address: 61 Plymouth Street  
Apt. #3  
Cambridge, Massachusetts 02141  
Citizenship: US

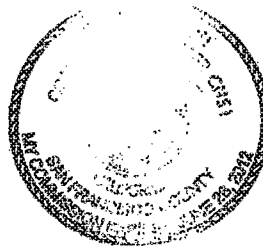
STATE/COMMONWEALTH OF California  
COUNTY OF Alameda:

On this 13 day of January, 2010, before me, the undersigned notary public,  
personally appeared Jeremy Agresti, proved to me through satisfactory evidence of  
identification, which were driver license,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

  
Notary Public

My commission expires: June 26, 2012



\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Liang-Yin Chu

Address: School of Chemical Engineering

Sichuan University

Chengdu, 610065

PEOPLE'S REPUBLIC OF CHINA

Citizenship: People's Republic of China

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Date \_\_\_\_\_

Inventor: David A. Weitz

Address: 213 Green Road

Bolton, Massachusetts 01740

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public, personally appeared David A. Weitz, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Jin-Woong Kim

Address: 301-806 Jugong Apartment

Geumwha-village

Gyeonggi-do 446-958

REPUBLIC OF KOREA

Citizenship: Republic of Korea

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Date \_\_\_\_\_

Inventor: Amy Rowat

Address: 240 River Street, #8

Cambridge, Massachusetts 02139

Citizenship: Canada

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared Amy Rowat, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Morten Sommer

Address: 2 Brimmer Street

#2

Boston, Massachusetts 02108

Citizenship: \_\_\_\_\_

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Morten Sommer \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

Date \_\_\_\_\_

Inventor: Gautam Dantas

Address: 14 Mead Street

#2

Allston, Massachusetts 02134

Citizenship: India

STATE/Commonwealth of \_\_\_\_\_

COUNTY OF \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public, personally appeared Gautam Dantas, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: George Church

Address: 218 Kent Street

Brookline, MA 02446

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ George Church \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to President and Fellows of Harvard College, a Massachusetts non-profit corporation having a place of business at 17 Quincy Street; Cambridge, Massachusetts 02138, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on September 4, 2009 under No. 12/529,926, bearing Attorney Docket No. H0498.70295US01, and entitled ASSAYS AND OTHER REACTIONS INVOLVING DROPLETS, and International Patent Application No.: PCT/US2008/003185 filed March 7, 2008, bearing Attorney Docket No.: H0498.70295WO00 and entitled ASSAYS AND OTHER REACTIONS INVOLVING DROPLETS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically

including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Jeremy Agresti

Address: 61 Plymouth Street

Apt. #3

Cambridge, Massachusetts 02141

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

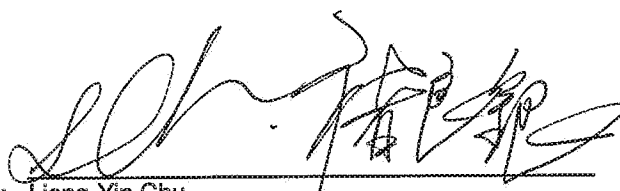
On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Jeremy Agresti \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

Nov. 25, 2009  
Date

  
Inventor: Liang-Yin Chu

Address: School of Chemical Engineering  
Sichuan University  
Chengdu, 610065  
PEOPLE'S REPUBLIC OF CHINA  
Citizenship: People's Republic of China

Witness: Rui Xie

Date: Nov. 25, 2009

Witness: Xiao Fei Ju

Date: Nov. 25, 2009

11/30/09  
Date

David A. Weitz  
Inventor: David A. Weitz  
Address: 213 Green Road  
Bolton, Massachusetts 01740  
Citizenship: US

STATE/Commonwealth of MASSACHUSETTS  
COUNTY OF MIDDLESEX:

On this 30th day of November, 2009, before me, the undersigned notary public,  
personally appeared David A. Weitz, proved to me through satisfactory evidence of  
identification, which were driver's license,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Christina M. Andujar  
Notary Public

My commission expires: \_\_\_\_\_



**CHRISTINA M. ANDUJAR**  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
August 26, 2016

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Jin-Woong Kim

Address: 301-806 Jugong Apartment

Geumwha-village

Gyeonggi-do 446-958

REPUBLIC OF KOREA

Citizenship: Republic of Korea

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Dec. 8/2009  
Date

ACA  
Inventor: Amy Rowat

Address: 240 River Street, #8  
Cambridge, Massachusetts 02139

Citizenship: Canada

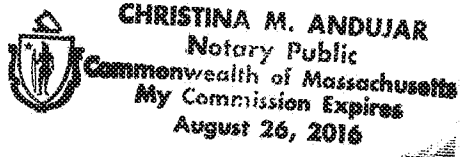
STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex:

On this 8th day of December, 2009, before me, the undersigned notary public,  
personally appeared Amy Rowat, proved to me through satisfactory evidence of  
identification, which were Passport,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Christina M. Andujar  
Notary Public

My commission expires: \_\_\_\_\_



11/30/09  
Date

[Signature]  
Inventor: Morten Sommer

Address: 2 Brimmer Street  
#2  
Boston, Massachusetts 02108

Citizenship: Denmark

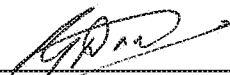
STATE/Commonwealth of MASSACHUSETTS  
COUNTY OF SUFFOLK:

On this 30 day of NOV, 2009, before me, the undersigned notary public,  
personally appeared Morten Sommer, proved to me through satisfactory evidence of  
identification, which were MASS DRIVER'S LICENSE,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL T. Budnick  
Notary Public

My commission expires: 5/7/2010

25<sup>th</sup> Nov '09  
Date

  
Inventor: Gautam Dantas

Address: ~~69 14 Mead Street~~ 7906 Lafon Place  
~~Go. Allston, Massachusetts 02134~~ University City, Missouri, 63130

Citizenship: India

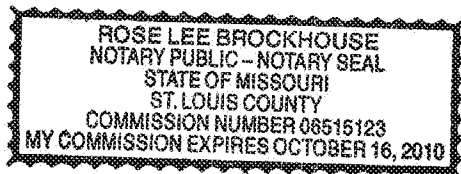
STATE/Commonwealth of Missouri  
COUNTY OF St. Louis:

On this 25<sup>th</sup> day of November, 2009, before me, the undersigned notary public, personally appeared Gautam Dantas, proved to me through satisfactory evidence of identification, which ~~were~~ was Missouri Driver's License #162240014 to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

  
Notary Public

My commission expires: October 16, 2010



\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: George Church

Address: 218 Kent Street

Brookline, MA 02446

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ George Church \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to President and Fellows of Harvard College, a Massachusetts non-profit corporation having a place of business at 17 Quincy Street; Cambridge, Massachusetts 02138, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on September 4, 2009 under No. 12/529,926, bearing Attorney Docket No. H0498.70295US01, and entitled ASSAYS AND OTHER REACTIONS INVOLVING DROPLETS, and International Patent Application No.: PCT/US2008/003185 filed March 7, 2008, bearing Attorney Docket No.: H0498.70295WO00 and entitled ASSAYS AND OTHER REATIONS INVOLVING DROPLETS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically

including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Jeremy Agresti

Address: 61 Plymouth Street

Apt. #3

Cambridge, Massachusetts 02141

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Jeremy Agresti \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Liang-Yin Chu

Address: School of Chemical Engineering

Sichuan University

Chengdu, 610065

PEOPLE'S REPUBLIC OF CHINA

Citizenship: People's Republic of China

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: David A. Weitz

Address: 213 Green Road

Bolton, Massachusetts 01740

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ David A. Weitz \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

12/15/09  
Date

*Jin Woong Kim*  
Inventor: Jin-Woong Kim  
Address: 301-806 Jugong Apartment  
Geumwha-village  
Gyeonggi-do 446-958  
REPUBLIC OF KOREA  
Citizenship: Republic of Korea

Witness: *Chenghwan Hwang*  
Chenghwan Hwang

Date: 12/15/09

Witness: *Wooram Park*  
Wooram Park

Date: 12/15/09

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Amy Rowat

Address: 240 River Street, #8

Cambridge, Massachusetts 02139

Citizenship: Canada

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Amy Rowat \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Morten Sommer

Address: 2 Brimmer Street

#2

Boston, Massachusetts 02108

Citizenship: \_\_\_\_\_

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Morten Sommer \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Gautam Dantas

Address: 14 Mead Street

#2

Allston, Massachusetts 02134

Citizenship: India

STATE/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_ Gautam Dantas \_\_\_\_\_, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: George Church

Address: 218 Kent Street

Brookline, MA 02446

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ George Church \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to President and Fellows of Harvard College, a Massachusetts non-profit corporation having a place of business at 17 Quincy Street; Cambridge, Massachusetts 02138, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on September 4, 2009 under No. 12/529,926, bearing Attorney Docket No. H0498.70295US01, and entitled ASSAYS AND OTHER REACTIONS INVOLVING DROPLETS, and International Patent Application No.: PCT/US2008/003185 filed March 7, 2008, bearing Attorney Docket No.: H0498.70295WO00 and entitled ASSAYS AND OTHER REATIONS INVOLVING DROPLETS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically

including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Jeremy Agresti

Address: 61 Plymouth Street

Apt. #3

Cambridge, Massachusetts 02141

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_ Jeremy Agresti \_\_\_\_\_, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Liang-Yin Chu

Address: School of Chemical Engineering

Sichuan University

Chengdu, 610065

PEOPLE'S REPUBLIC OF CHINA

Citizenship: People's Republic of China

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: David A. Weitz

Address: 213 Green Road

Bolton, Massachusetts 01740

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared David A. Weitz, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Jin-Woong Kim

Address: 301-806 Jugong Apartment

Geumwha-village

Gyeonggi-do 446-958

REPUBLIC OF KOREA

Citizenship: Republic of Korea

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Amy Rowat

Address: 240 River Street, #8

Cambridge, Massachusetts 02139

Citizenship: Canada

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Amy Rowat \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Morten Sommer

Address: 2 Brimmer Street

#2

Boston, Massachusetts 02108

Citizenship: \_\_\_\_\_

STATE/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_ Morten Sommer \_\_\_\_\_, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Gautam Dantas

Address: 14 Mead Street

#2

Allston, Massachusetts 02134

Citizenship: India

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Gautam Dantas \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

8 Jan 2010

Date



Inventor: George Church

Address: 218 Kent Street

Brookline, MA 02446

Citizenship: US

STATE/Commonwealth of MASSACHUSETTS  
COUNTY OF SUFFOLK:

On this 8 day of JAN, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared George Church, proved to me through satisfactory evidence of  
identification, which were KNOWN TO ME,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

T. Budin  
Notary Public

My commission expires:

5/1/2010