

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3782665

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
M. SHANE BOWEN	11/13/2012
KEVIN L. GUNDERSON	11/13/2012
SHENGRONG LIN	11/13/2012
MARIA CANDELARIA ROBERT BACIGALUPO	11/13/2012
KANDASWAMY VIJAYAN	11/20/2012
YIR-SHYUAN WU	11/13/2012
BALA MURALI VENKATESAN	11/08/2012
JAMES TSAY	11/13/2012
JOHN M. BEIERLE	11/07/2012
LORENZO BERTI	11/13/2012
SANG RYUL PARK	11/13/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ILLUMINA, INC.
<b>Street Address:</b>	5200 ILLUMINA WAY
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92122
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14194143
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	ip@illumina.com
<b>Correspondent Name:</b>	ILLUMINA, INC.
<b>Address Line 1:</b>	5200 ILLUMINA WAY
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92122
<b>ATTORNEY DOCKET NUMBER:</b>	IP-0615A-US

<b>NAME OF SUBMITTER:</b>	IRJA ZAREMBOK
<b>SIGNATURE:</b>	/Irja Zarembok/
<b>DATE SIGNED:</b>	03/14/2016
<b>Total Attachments: 15</b> source=IP-0615_Assignment_signed#page1.tif source=IP-0615_Assignment_signed#page2.tif source=IP-0615_Assignment_signed#page3.tif source=IP-0615_Assignment_signed#page4.tif source=IP-0615_Assignment_signed#page5.tif source=IP-0615_Assignment_signed#page6.tif source=IP-0615_Assignment_signed#page7.tif source=IP-0615_Assignment_signed#page8.tif source=IP-0615_Assignment_signed#page9.tif source=IP-0615_Assignment_signed#page10.tif source=IP-0615_Assignment_signed#page11.tif source=IP-0615_Assignment_signed#page12.tif source=IP-0615_Assignment_signed#page13.tif source=IP-0615_Assignment_signed#page14.tif source=IP-0615_Assignment_signed#page15.tif	

**ASSIGNMENT OF IP RIGHTS TO ILLUMINA, INC.**

WHEREAS, each one of the undersigned:

Name: **M. Shane Bowen**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **Kevin L. Gunderson**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **Shengrong Lin**  
Address: 25861 Industrial Blvd.  
Hayward , CA 94545

Name: **Maria Candelaria Rogert Bacigalupo**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **Kandaswamy Vijayan**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **Yir-Shyuan Wu**  
Address: 25861 Industrial Blvd.  
Hayward , CA 94545

Name: **Bala Murali Venkatesan**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **James Tsay**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **John M. Beierle**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **Lorenzo Berti**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Name: **Sang Ryul Park**  
Address: 5200 Illumina Way  
San Diego , CA 92122

Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

(collectively "the Assignor/s") have made certain new and useful inventions, discoveries, and improvements (the "Inventions"), for which the Assignor/s filed the following application/s:

File No.	IP-0615-US	Outside ref.	ILMN:0028
Title:	MICROARRAY FABRICATION SYSTEM AND METHOD		
Ser. No.	13/661,524	Filed:	October 26, 2012

File No.	IP-0615-PCT	Outside ref.	ILMN:0028PCT
Title:	MICROARRAY FABRICATION SYSTEM AND METHOD		
Ser. No.	PCT/US2012/062105	Filed:	October 26, 2012

and now desire/s to convey all right, title, and interest in:

- the Inventions,
- the application/s listed above, and any other applications for patent, design, utility model, certificate of invention, trademark, or trade dress, in any country or under any international or regional authority (e.g. WIPO/PCT, EPO, ARIPO, EAPO, OAPI), to the extent some or all of its subject matter is disclosed and entitled to the benefit of priority in the application/s listed above, including provisional, continuation, divisional, continuation-in-part, reissue, and reexamination applications (collectively "the Application/s"),
- the benefit of earlier filing date and right to claim priority to the Inventions and Application/s under applicable law and treaties, including the Paris Convention for the Protection of Industrial Property as revised and amended and 35 U.S.C. §§ 119, 120,
- any rights accrued by the publication of the Application/s, such as 35 U.S.C. § 154(d), Art. 67(1) EPC,
- any Letters Patent or Certificates of Invention that may be issued or granted from the Application/s, including reissued patents, reexamination certificates, renewals, and any rights resulting from an extension or adjustment of patent term, and
- any rights arising from the Invention under laws and conventions protecting copyright, trademark, trade dress, or other industrial property,

(collectively, "the IP Rights"), and

WHEREAS, ILLUMINA, INC., a Delaware corporation having a place of business at 5200 Illumina Way, San Diego, CA 92122, United States of America is desirous of acquiring the entire right, title, and interest for itself, its successors, and its assigns (collectively "the Assignee") in the IP Rights by an instrument in writing, 35 U.S.C. § 261;

Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration, and by an obligation that existed before the filing date of the PCT application/s above, the receipt and sufficiency of which I/we hereby acknowledge and hereby waive the right to any additional compensation concerning the IP Rights:

I/we warrant and represent to the Assignee that I/we have the full right to convey my/our right, title, and interest in the IP Rights without encumbrance, and that I/we have not made any earlier assignment, license, grant, or mortgage to another, or made any agreement with another, that would affect my/our right, title, and interest in the IP Rights;

By this Assignment and by virtue of any earlier agreements to assign, I/we hereby assign, transfer, convey, and sell my/our entire right, title, and interest in the IP Rights to the Assignee, including any claims or causes of action for damages or other remedies arising out of any earlier violation of the IP Rights, for and to inure to the Assignee's full benefit of the IP Rights as fully as they would have been held by me/us if this Assignment had not been made;

I/we authorize the Assignee and its legal representatives to:

- (a) insert into this Assignment any supplemental information to make the identification more complete for any of the Application/s or Letters Patent already listed above,
- (b) prosecute the Application/s, file new applications for the Invention/s, and do all acts permitted by law to protect and enforce the IP Rights,
- (c) request that Letters Patent and Certificates of Invention be issued and granted to and in the name of the Assignee by the issuing or granting authority, such as the U.S. Commissioner for Patents, 37 C.F.R. § 3.81; and

I/we agree with the Assignee that I/we and my/our legal representatives, heirs, and executors will perform all acts deemed necessary or desirable by the Assignee to permit and assist it to secure the entire right, title, and interest in the IP Rights so that the Assignee may benefit from this Assignment, including:

- (a) communicating to the Assignee all facts known to me/us that relate to the history and extent of my individual contribution to the IP Rights, including the circumstances of the conception of the invention and its development and reduction to practice, and furnishing supporting documents or items in my control,
- (b) assisting in the preparation of the Application/s and their prosecution by the Assignee, 37 C.F.R. § 3.71, and in the enforcement of the IP Rights, including making, executing, and delivering to the Assignee any other necessary documents, such as further application papers, declarations, affidavits, disclaimers, petitions, or assignments, and

Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

- (c) assisting and cooperating in administrative and legal proceedings, including giving written and oral testimony,

so that these will be performed without further consideration, except for reasonable actual expenses to be reimbursed by the Assignee.

I/we further agree with the Assignee that I/we will not perform any future act, execute any subsequent document, or make any subsequent agreement with another person or party that conflicts with this Assignment, that purports to transfer any right, title, or interest in the IP Rights that are the subject of this Assignment, unless agreed to in writing by the Assignee or that prevents the Assignee from receiving the full benefit of the bargain under this Assignment.

If any provision of this Assignment is held invalid or unenforceable, that provision shall be enforced to the maximum extent permissible in order to put into effect the intent of the Assignor/s and the Assignee, and the remainder of this Assignment shall not be affected, but continue in full force and effect.

This document shall be executable by each Assignor in parts, and the Assignment will be effective and recordable for each Assignor as of the date of that Assignor's signature.

For purposes of the PCT application/s listed above, the effective date of this Assignment is October 26, 2012.

Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **M. Shane Bowen**

Signature

*M. Shane Bowen*

Date:

11/13/12

### ACKNOWLEDGMENT

State of California  
County of San Diego

On November 13, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared M. Shane Bowen  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~  
subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in  
his/her authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature

*Rosalyn M. Espejo* (Seal)



Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Kevin L. Gunderson**

Signature

Kevin L. Gunderson

Date:

11/13/2012

### ACKNOWLEDGMENT

State of California

County of San Diego

On Nov 13, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Kevin L. Gunderson  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~  
subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature

Rosalyn M. Espejo (Seal)



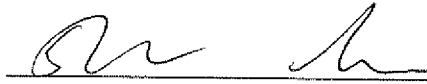


Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Shengrong Lin**

Signature



Date:

November 13, 2012

### ACKNOWLEDGMENT

State of California  
County of Alameda

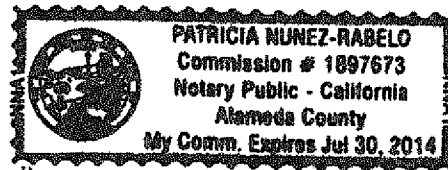
On November 13, 2012 before me, Patricia Nunez-Rabelo, Notary  
(insert name and title of the officer)

personally appeared ----- Shengrong Lin -----  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in  
his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature Patricia Nuñez-Rabelo (Seal)

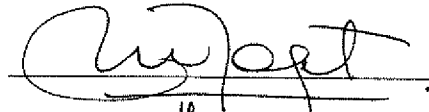


Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Maria Candelaria Rogert Bacigalupo**

Signature



Date:

Nov 13<sup>th</sup> 2012.

### ACKNOWLEDGMENT

State of California

County of San Diego

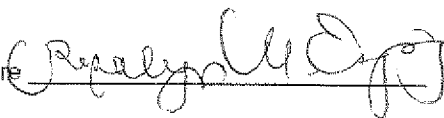
On Nov 13, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Maria Candelaria Rogert Bacigalupo  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature



(Seal)

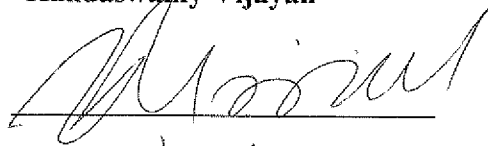


Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Kandaswamy Vijayan**

Signature



Date:

11/20/2012

### ACKNOWLEDGMENT

State of California  
County of San Diego

On Nov. 20, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Kandaswamy Vijayan  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature Rosalyn M. Espejo (Seal)



Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Yir-Shyuan Wu**

Signature

Wu, Yir-shyuan

Date:

November 13, 2012

### ACKNOWLEDGMENT

State of California

County of Alameda

On November 13, 2012 before me, Patricia Nunez-Rabelo, Notary  
(insert name and title of the officer)

personally appeared ----- Yir-Shyuan Wu -----  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

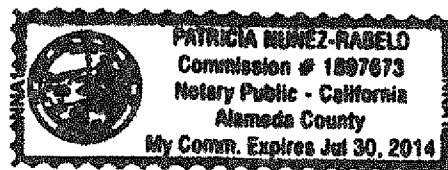
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Patricia Nunez-Rabelo

(Seal)



Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Bala Murali Venkatesan**

Signature

Murali Vt

Date:

11/8/2012

### ACKNOWLEDGMENT

State of California  
County of San Diego

On November 8, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Bala Murali Venkatesan  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is are~~  
subscribed to the within instrument and acknowledged to me that ~~he she~~ they executed the same in  
~~his her~~ their authorized capacity(ies), and that by ~~his her~~ their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature Rosalyn M. Espejo (Seal)



Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **James Tsay**

Signature

Date:

James Tsay  
11/13/12

### ACKNOWLEDGMENT

State of California

County of San Diego

On November 13, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared James Tsay  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature Rosalyn M. Espejo (Seal)



Assignment of IP Rights to ILLUMINA, INC.

Assignors: Bowen et al.

File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **John M. Beierle**

Signature

Date:

*John M. Beierle*  
11/7/12

### ACKNOWLEDGMENT

State of California

County of San Diego

On November 7, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared John M. Beierle  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is ~~are~~  
subscribed to the within instrument and acknowledged to me that he ~~she~~ he executed the same in  
his ~~her~~ authorized capacity(ies), and that by his ~~her~~ signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature

*Rosalyn M. Espejo*

(Seal)



Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Lorenzo Berti**

Signature

Lorenzo B.

Date:

11-13-12

### ACKNOWLEDGMENT

State of California

County of San Diego

On Nov. 13, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Lorenzo Berti  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
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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

Signature

Rosalyn M. Espejo  
hottu

(Seal)



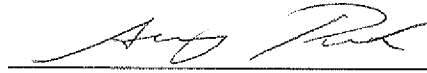


Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Bowen et al.  
File Number: IP-0615

In testimony of this Assignment, I am signing and dating this document below:

Name: **Sang Ryul Park**

Signature



Date:

11/13/12

### ACKNOWLEDGMENT

State of California  
County of San Diego

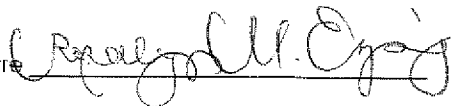
On Nov 13, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Sang Ryul Park  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he she they executed the same in  
his her their authorized capacity(ies), and that by his her their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) 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.

Signature



(Seal)

