

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>John A. Moon</td> <td>01/19/2011</td> </tr> <tr> <td>M. Shane Bowen</td> <td>01/19/2011</td> </tr> <tr> <td>Ryan C. Smith</td> <td>01/19/2011</td> </tr> <tr> <td>Michel Perbost</td> <td>01/19/2011</td> </tr> <tr> <td>Michal Lebel</td> <td>01/14/2011</td> </tr> <tr> <td>Steven H. Modiano</td> <td>01/19/2011</td> </tr> </tbody> </table>		Name	Execution Date	John A. Moon	01/19/2011	M. Shane Bowen	01/19/2011	Ryan C. Smith	01/19/2011	Michel Perbost	01/19/2011	Michal Lebel	01/14/2011	Steven H. Modiano	01/19/2011
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<table border="1"> <tr> <td>Name:</td> <td>Illumina, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>5200 Illumina Way</td> </tr> <tr> <td>City:</td> <td>San Diego</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92122</td> </tr> </table>		Name:	Illumina, Inc.	Street Address:	5200 Illumina Way	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92122				
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CORRESPONDENCE DATA															
<p>Fax Number: 8587368428  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (858) 246-8842        Email: ip@illumina.com        Correspondent Name: John T. Murphy        Address Line 1: 5200 Illumina Way        Address Line 2: Legal Department        Address Line 4: San Diego, CALIFORNIA 92122</p>															
ATTORNEY DOCKET NUMBER:	IP-0466A-US														

CH \$40.00 13969050

NAME OF SUBMITTER:	John T. Murphy
Signature:	/John Murphy/
Date:	09/19/2013
<p>Total Attachments: 8</p> <p>source=Assignment0466#page1.tif</p> <p>source=Assignment0466#page2.tif</p> <p>source=Assignment0466#page3.tif</p> <p>source=Assignment0466#page4.tif</p> <p>source=Assignment0466#page5.tif</p> <p>source=Assignment0466#page6.tif</p> <p>source=Assignment0466#page7.tif</p> <p>source=Assignment0466#page8.tif</p>	

**ASSIGNMENT**

I/We, **JOHN A. MOON** of San Diego, CA; **M. SHANE BOWEN** of La Jolla, CA; **RYAN C. SMITH** of San Diego, CA; **MICHEL PERBOST** of San Diego, CA; **MICHAL LEBL** of San Diego, CA; and **STEVEN H. MODIANO** of San Diego, CA have made certain inventions or discoveries (or both) set forth in U.S. Patent Application No. 12/916,242, filed October 29, 2010, and also in International Application No. PCT/US10/54829, filed October 29, 2010, both of which are entitled:

**MICROVESSELS, MICROPARTICLES AND METHODS OF  
MANUFACTURING AND USING THE SAME**

and **ILLUMINA, INC.**, whose address is 9885 TOWNE CENTRE DRIVE, SAN DIEGO, CA 92121, USA, and which, together with its successors and assigns is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof heretofore acquired by Assignee.

**NOW, THEREFORE**, for valuable consideration furnished by Assignee to me/us, receipt and sufficiency of which I/we hereby acknowledge, I/we hereby, without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, any and all applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my/our name(s) or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters

Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that I/we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I/we have good right to assign the same to Assignee without encumbrance;

5. Bind my/our heirs and legal representatives, as well as myself/ourselves, to do, upon Assignee's request and at its expense, but without additional consideration to me/us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me/us or my/our heirs or representatives if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me/us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my/our control or in the control of my/our heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the latest date accompanying signature(s), herein below.

CO-INVENTOR

Signature:   
**JOHN A. MOON**

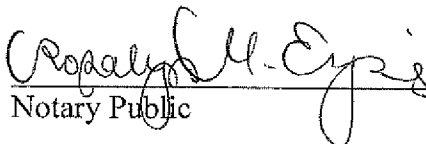
Date: 1/19/2011

State of California )  
County of San Diego )ss.

On January 19, 2011 before me, Rosalyn M. Espejo, personally appeared **JOHN A. MOON** 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 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.

  
Notary Public



NOTARY PUBLIC SEAL

CO-INVENTOR

Signature:   
M. SHANE BOWEN

Date: 1/19/11

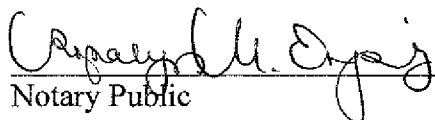
State of California )  
County of San Diego )ss.

On January 19, 2011 before me, Rosalyn M. Espejo, 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/their authorized capacity(ies), and that by his ~~her/their~~ signature(s) on the instrument the person(s), or the entity upon 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.



  
Notary Public

NOTARY PUBLIC SEAL

CO-INVENTOR

Signature: \_\_\_\_\_

**RYAN C. SMITH**

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

1-19-2011

State of California )  
 )ss.  
County of San Diego )

On January 19, 2011 before me, Rosalyn M. Espejo, personally appeared **RYAN C. SMITH** 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 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.

Rosalyn M. Espejo  
Notary Public



NOTARY PUBLIC SEAL

CO-INVENTOR

Signature: \_\_\_\_\_

**MICHEL PERBOST**

Date: 01/19/2011

State of California                    )  
County of San Diego                )ss.

On January 19, 2011 before me, Rosalyn M. Espejo, personally appeared **MICHEL PERBOST** 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 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.

Rosalyn M. Espejo  
Notary Public



NOTARY PUBLIC SEAL



CO-INVENTOR

Signature:   
**MICHAL LEBL**

Date: 1/14/11

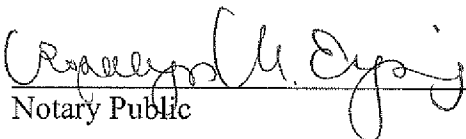
State of California )  
County of San Diego )ss.

On January 14, 2011 before me, Rosalyn M. Espejo, personally appeared **MICHAL LEBL** 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 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.



  
Notary Public

NOTARY PUBLIC SEAL

CO-INVENTOR

Signature: Steven H. Modiano  
**STEVEN H. MODIANO**

Date: 1/19/2011

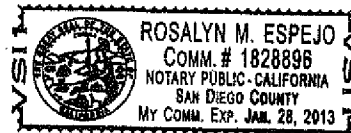
State of California )  
County of San Diego )ss.

On January 19, 2011 before me, Rosalyn M. Espejo, personally appeared **STEVEN H. MODIANO** 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 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.

Rosalyn M. Espejo  
Notary Public



NOTARY PUBLIC SEAL