

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>Mostafa Ronaghi</td> <td>03/05/2010</td> </tr> <tr> <td>Helmy A. Eltoukhy</td> <td>02/22/2010</td> </tr> </tbody> </table>		Name	Execution Date	Mostafa Ronaghi	03/05/2010	Helmy A. Eltoukhy	02/22/2010				
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Mostafa Ronaghi	03/05/2010										
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RECEIVING PARTY DATA											
<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</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (858) 246-8842</p> <p>Email: ip@illumina.com</p> <p>Correspondent Name: John T. Murphy</p> <p>Address Line 1: 5200 Illumina Way</p> <p>Address Line 2: Legal Department</p> <p>Address Line 4: San Diego, CALIFORNIA 92122</p>											
ATTORNEY DOCKET NUMBER:	IP-0293B-US										
NAME OF SUBMITTER:	John T. Murphy										
Signature:	/John Murphy/										
Date:	08/19/2013										
<p>Total Attachments: 3</p> <p>source=IP-0293-US Assignment Ronaghi Eltoukhy 3-9-10[1]#page1.tif</p> <p>source=IP-0293-US Assignment Ronaghi Eltoukhy 3-9-10[1]#page2.tif</p> <p>source=IP-0293-US Assignment Ronaghi Eltoukhy 3-9-10[1]#page3.tif</p>											

CH \$40.00 13905003

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## ASSIGNMENT

WHEREAS, Mostafa Ronaghi, a Sweden/Iran citizen, residing in Menlo Park, CA; and Helmy A. Eltoukhy, a United States citizen, residing in Woodside, California, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to MULTIBASE DELIVERY FOR LONG READS IN SEQUENCING BY SYNTHESIS PROTOCOLS (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, ILLUMINA, INC., a Delaware Corporation, with its principal place of business at 9885 Towne Centre Drive, San Diego, CA 92121-1975 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:


NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in THE APPLICATION and THE WORK, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). 61/140,566, filed December 23, 2008 (respectively if plural applications)), and all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, Assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

CO-INVENTOR

Signature:   
**Mostafa Ronaghi**


Date: 03/05/10

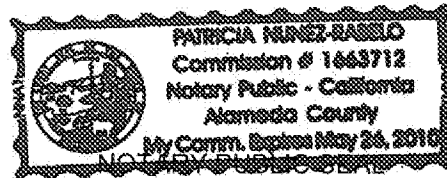
State of California                    )  
  )ss.  
County of Alameda                    )

On **March 5, 2010** before me, Patricia Nuñez-Rabelo , personally appeared **Mostafa Ronaghi** 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.

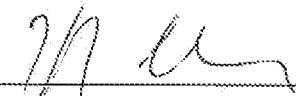
Witness my hand and official seal.

  
Notary Public 8



**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

CO-INVENTOR

Signature:   
**Helmy A. Eltoukhy**



Date: 2/22/2010

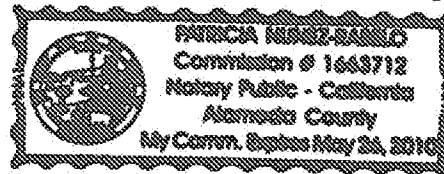
State of California                    )  
  )ss.  
County of Alameda                    )

On **February 22, 2010** before me, Patricia Nuñez-Rabelo , personally appeared **Helmy A. Eltoukhy** 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