503383609 07/08/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTIAN GLOECKNER	05/20/2015
AMIRALI KIA	06/02/2015
ERIN BOMATI	06/25/2015
MOLLY HE	05/21/2015
HAIYING LI GRUNENWALD	06/02/2015
SCOTT KUERSTEN	06/02/2015
TRINA FAYE OSOTHPRAROP	05/28/2015
DARIN HASKINS	05/21/2015
JOSHUA BURGESS	05/20/2015
ANUPAMA KHANNA	05/20/2015
DANIEL SCHLINGMAN	05/20/2015
RAMESH VAIDYANATHAN	06/01/2015

RECEIVING PARTY DATA

Name:	Illumina, Inc.
Street Address:	5200 Illumina Way
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92122

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14686961

CORRESPONDENCE DATA

Fax Number: (858)736-8428

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.

Email: ip@illumina.com

Correspondent Name: ROSALYN ESPEJO
Address Line 1: 5200 ILLUMINA WAY

Address Line 4: SAN DIEGO, CALIFORNIA 92122

PATENT REEL: 036028 FRAME: 0603

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IP-1198-US	
ROSALYN ESPEJO	
/ROSALYN ESPEJO/	
07/08/2015	
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Application Data Sheet filed previously or concurrently For US utility and design applications filed on or after September 16, 2012

Docket No.: IP-1198-US

Page 1 of 6

Title: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA

INPUT TOLERANCE

Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly He, Haiying Li Grunenwald, Scott Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingman, and Ramesh Vaidyanathan

DECLARATION

This declaratio	n is directed to:
	The attached application.
or	
x	United States application number 14/686,961 filed on April 15, 2015.

As a named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-referenced patent application, including the claims, as amended by any amendment.

I understand that as an inventor on this patent application, I have a duty to disclose to the United States Patent & Trademark Office (USPTO) all information of which I am aware that is material to patentability as defined in 37 C.F.R. § 1.56.

ASSIGNMENT FROM INVENTORS

WHEREAS, above-identified inventors (collectively "the Assignor/s") have made certain new and useful inventions, discoveries, and improvements (the "Inventions"), for which the Assignor/s filed the application/s listed above and now desire/s to convey all right, title, and interest in:

Application Data Sheet filed previously or concurrently For US utility and design applications filed on or after September 16, 2012

Docket No.: IP-1198-US

Page 2 of 6

Title: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA

INPUT TOLERANCE

Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly He, Haiying Li Grunenwald, Scott Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingman, and Ramesh Vaidyanathan

- 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;

NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration, 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,

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Docket No.: IP-1198-U\$

Page 3 of 6

Title: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA

INPUT TOLERANCE

Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly He, Haiying Li Grunenwald, Scott Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingman, and Ramesh Vaidyanathan

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:

- 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,
- 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

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Docket No.: IP-1198-US Title: MODIFIED TRANS INPUT TOLERANCE	Page 4 of 6 DSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA
Inventor(s): Christian G Kuersten, Trina Faye Os and Ramesh Vaidyanati	eckner, Amirali Kia, Erin Bomati, Molly He, Haiying Li Grunenwald, Scott hprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingman, n
(c) assistin written	and cooperating in administrative and legal proceedings, including giving and oral testimony,
so that these will be pe be reimbursed by the A	ormed without further consideration, except for reasonable actual expenses to ignee.
document, or make any Assignment, that purpo this Assignment, unless	ne Assignee that I/we will not perform any future act, execute any subsequent subsequent agreement with another person or party that conflicts with this to transfer any right, title, or interest in the IP Rights that are the subject of greed to in writing by the Assignee or that prevents the Assignee from of the bargain under this Assignment.
the maximum extent pe	ignment is held invalid or unenforceable, that provision shall be enforced to nissible in order to put into effect the intent of the Assignor/s and the der of this Assignment shall not be affected, but continue in full force and
This document shall be recordable for each Ass	ecutable by each Assignor in parts, and the Assignment will be effective and nor as of the date of that Assignor's signature.
Legal Name of Inventor IN TESTIMONY WHEREC	hristian Gloeckner I hereunto set my hand and seal this 20 ⁺¹ day of Mag, 2015. Signature:
Legal Name of Inventor: IN TESTIMONY WHEREC	mirali Kia I hereunto set my hand and seal this day of, 2015.
	Signature:

Application Data Sheet filed previously or concurrently For US utility and design applications filed on or after September 16, 2012

Docket No.: IP-1198-US Page 4 of 6 Title: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA INPUT TOLERANCE Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly He, Haiying Li Grunenwald, Scott Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingman, and Ramesh Vaidyanathan (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. Legal Name of Inventor: Christian Gloeckner IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _____ day of ______, 2015. Signature: IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2 day of 3 v v 2015.

Signature:

Application Data Sheet filed previously or concurrently For US utility and design applications filed on or after September 16, 2012

Page 5 of 6 Fitle: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA INPUT TOLERANCE Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly He, Haiying Li Grunenwald, Scott Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingman, and Ramesh Vaidyanathan		
Legal Name of Inventor: Erin Bomati IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 25 day of 1000	, 2015.	
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 25 day of 10116 Signature:	2	
Legal Name of Inventor: Molly He IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of Signature:		
Legal Name of Inventor: Haiying Li Grunenwald IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of Signature:		
Legal Name of Inventor: Scott Kuersten IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of Signature:		
Legal Name of Inventor: Trina Faye Osothprarop IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of	, 2015.	

Application Data Sheet filed previously or concurrently For US utility and design applications filed on ar after September 16, 2012

Page 5 of i Title: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA INPUT TOLERANCE Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly He, Haiying Li Grunenwald, Scott Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingman, and Ramesh Vaidyanathan		
Legal Name of Inventor: Erin Bomati IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of	, 2015.	
Signature:		
Legal Name of Inventor: Molly He IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2/5 ^f day of		
Legal Name of Inventor: Haiying Li Grunenwald IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of Signature:		
Legal Name of Inventor: Scott Kuersten IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of Signature:		
Legal Name of Inventor: Trina Faye Osothprarop IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of	2015,	

Application Data Sheet filed previously or concurrently for US utility and design applications filed on or after September 16, 2012

Docket No.: IP-1198-US Title: MODIFIED TRANSPOSASES FOR IMPROVE INPUT TOLERANCE Inventor(s): Christian Gloeckner, Amirali Kia, Er Kuersten, Trina Faye Osothprarop, Darin Haskii and Ramesh Vaidyanathan	rin Bomati, Molly He, Ha	E BIAS AND INCREASED DA	
Legal Name of Inventor: Erin Bomati IN TESTIMONY WHEREOF, I hereunto set my ha	and and seal this	_day of	_, 2015.
<u> </u>	Signature:		
Legal Name of Inventor: Molly He IN TESTIMONY WHEREOF, I hereunto set my ha		_day of	
Legal Name of Inventor: Haiying Li Grunenwald IN TESTIMONY WHEREOF, I hereunto set my ha S	ind and seal this 2 signature 2000	day of JUNE	_ 2015. LA
Legal Name of Inventor: Scott Kuersten IN TESTIMONY WHEREOF, I hereunto set my ha	ind and seal this	day of June Grend	_, 2015.
Legal Name of Inventor: Trina Faye Osothpraro IN TESTIMONY WHEREOF, I hereunto set my ha S	nd and seal this	day of	

Application Data Sheet filed previously or concurrently For US utility and design applications filed on or after September 16, 2012

Title: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEC		
Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burges and Ramesh Vaidyanathan	s, Anupama Khanna, Da	niel Schlingman,
Legal Name of Inventor: Erin Bomati IN TESTIMONY WHEREOF, I hereunto set my hand and seal this		
Signature:		
Legal Name of Inventor: Molly He IN TESTIMONY WHEREOF, I hereunto set my hand and seal this	day of	3115
	day or	
Legal Name of Inventor: Haiying Li Grunenwald IN TESTIMONY WHEREOF, I hereunto set my hand and seal this	day of	, 2015.
Signature:		
Legal Name of Inventor: Scott Kuersten IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _	day of	, 2015.
Signature:		
Legal Name of Inventor: Trina Faye Osothprarop IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _	28_day of May	, 2015.
Signature:		<u> </u>

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Docket No.: IP-1198-US Page 6 of Title: MODIFIED TRANSPOSASES FOR IMPROVED INSERTION SEQUENCE BIAS AND INCREASED DNA INPUT TOLERANCE Inventor(s): Christian Gloeckner, Amirali Kia, Erin Bomati, Molly He, Halying Li Grunenwald, Scott Kuersten, Trina Faye Osothprarop, Darin Haskins, Joshua Burgess, Anupama Khanna, Daniel Schlingmar and Ramesh Valdyanathan	
Legal Name of Inventor: Darin Haskins IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21th day of 100 100 100 100 100 100 100 100 100 10	.5.
Legal Name of Inventor: Joshua Burgess IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20 day of	.5.
Legal Name of Inventor: Anupama Khanna IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20 day of Nau 201 Signature: A - Wolld Q	5.
Legal Name of Inventor: Daniel Schlingman IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20th day of 101 y 201 Signature: Signature:	5.
Legal Name of Inventor: Ramesh Vaidyanathan IN TESTIMONY WHEREOF, I hereunto set my hand and seal this	5,

RECORDED: 07/08/2015