

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7350685

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ABDE ALI HUNAID KAGALWALLA	05/04/2022
ERIC JON OJARD	02/28/2022
RAMI MEHIO	05/04/2022
GAVIN DEREK PARNABY	02/28/2022
NITIN UDPA	05/04/2022
BO LU	02/25/2022
JOHN S. VIECELI	05/05/2022
RECEIVING PARTY DATA	
Name:	ILLUMINA SOFTWARE, INC.
Street Address:	5200 ILLUMINA WAY
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92122
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17511483
CORRESPONDENCE DATA	
Fax Number:	(650)712-0263
<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>	
Phone:	650-712-0340
Email:	docket@hmbay.com
Correspondent Name:	HAYNES BEFFEL & WOLFELD LLP
Address Line 1:	PO BOX 366
Address Line 4:	HALF MOON BAY, CALIFORNIA 94019
ATTORNEY DOCKET NUMBER:	ILLM 1053-1/IP-2214-US
NAME OF SUBMITTER:	NADINE HAHN
SIGNATURE:	/NADINE HAHN/
DATE SIGNED:	05/25/2022

Total Attachments: 10

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ASSIGNMENT FROM INVENTORS

Docket No.: ILLM 1053-1/IP-2214-US

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Title: INTENSITY EXTRACTION WITH INTERPOLATION AND ADAPTATION FOR BASE CALLING

U.S. Application No.: 17/511,483

Filing Date: 10-26-2021

Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY; Nitin UDPA; Bo LU; John S. VIECELI

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:

- 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 SOFTWARE, INC., a Delaware corporation having a place of business at 5200 Illumina Way, San Diego, California 92122 USA 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:

ASSIGNMENT FROM INVENTORS

Docket No.: ILLM 1053-1/IP-2214-US

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Title: INTENSITY EXTRACTION WITH INTERPOLATION AND ADAPTATION FOR BASE CALLING

U.S. Application No.: 17/511,483

Filing Date: 10-26-2021

Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY; Nitin UDPA; Bo LU; John S. VIECELI

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

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Title: INTENSITY EXTRACTION WITH INTERPOLATION AND ADAPTATION FOR BASE CALLING

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(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: **Abde Ali Hunaid KAGALWALLA**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4 day of May, 2022.

Signature: Abde Ali Hunaid Kagalwalla

Legal Name of Inventor: **Eric Jon OJARD**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

ASSIGNMENT FROM INVENTORS

Docket No.: ILLM 1053-1/IP-2214-US

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(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.

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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: **Abde Ali Hunaid KAGALWALLA**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Eric Jon OJARD**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28 day of February, 2022.

Signature: Eric Jon Ojard

ASSIGNMENT FROM INVENTORS

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Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY;
Nitin UDPA; Bo LU; John S. VIECELI

Legal Name of Inventor: **Rami MEHIO**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 04 day of May, 2022.

Signature: *Rami Mehio*

Legal Name of Inventor: **Gavin Derek PARNABY**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Nitin UDPA**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Bo LU**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **John S. VIECELI**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

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Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY; Nitin UDPA; Bo LU; John S. VIECELI

Legal Name of Inventor: Rami MEHIO

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: Gavin Derek PARNABY

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 23 day of FEBRUARY, 2022.

Signature:  _____

Legal Name of Inventor: Nitin UDPA

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: Bo LU

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: John S. VIECELI

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _____ day of _____, 20____.

Signature: _____

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Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY; Nitin UDPA; Bo LU; John S. VIECELI

Legal Name of Inventor: **Rami MEHIO**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Gavin Derek PARNABY**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Nitin UDPA**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4 day of May, 2022.

Signature:  _____

Electronically signed
by: Nitin Udpa
Reason: Approver
Date: May 4, 2022
15:11 PDT

Legal Name of Inventor: **Bo LU**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **John S. VIECELI**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

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Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY; Nitin UDPA; Bo LU; John S. VIECELI

Legal Name of Inventor: **Rami MEHIO**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Gavin Derek PARNABY**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

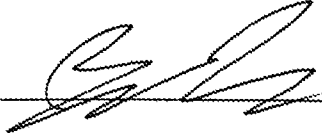
Legal Name of Inventor: **Nitin UDPA**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Bo LU**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 25 day of February, 2022.

Signature:  _____

Legal Name of Inventor: **John S. VIECELI**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

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Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY; Nitin UDPA; Bo LU; John S. VIECELI

Legal Name of Inventor: **Rami MEHIO**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Gavin Derek PARNABY**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Nitin UDPA**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **Bo LU**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 20____.

Signature: _____

Legal Name of Inventor: **John S. VIECELI**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 5 day of May, 2022.

Signature: John S. Vieceli

ASSIGNMENT FROM INVENTORS

Docket No.: ILLM 1053-1/IP-2214-US

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Title: INTENSITY EXTRACTION WITH INTERPOLATION AND ADAPTATION FOR BASE CALLING

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Inventor(s): Abde Ali Hunaid KAGALWALLA; Eric Jon OJARD; Rami MEHIO; Gavin Derek PARNABY; Nitin UDPA; Bo LU; John S. VIECELI

RECEIVED AND HEREBY ACCEPTED BY ILLUMINA SOFTWARE, INC., a Corporation

Date: 13-May-2022

Roland Schwillinski

Electronically
signed by: Roland
Schwillinski
Reason: Approver
Date: May 13, 2022
08:23 PDT

Name: Roland Schwillinski

**Title: Vice President, Global IP and Litigation of
Illumina, Inc., the parent company of Illumina
Software, Inc.**