

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6130178

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YONGJUN KWAK	05/29/2020
AVIK SENGUPTA	11/20/2019
DAE WON LEE	07/23/2019
ALEXEI DAVYDOV	10/25/2018
SEUNGHEE HAN	11/10/2018
GREGORY MOROZOV	10/25/2018
SAMEER PAWAR	12/29/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTEL IP CORPORATION
<b>Street Address:</b>	2200 MISSION COLLEGE BLVD.
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16127829
<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>Phone:</b>	612-373-6900
<b>Email:</b>	request@slwip.com
<b>Correspondent Name:</b>	SCHWEGMAN, LUNDBERG & WOESSNER/INTEL
<b>Address Line 1:</b>	PO BOX 2938
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402
<b>ATTORNEY DOCKET NUMBER:</b>	4884.989US1
<b>NAME OF SUBMITTER:</b>	NANCY CUNDALL
<b>SIGNATURE:</b>	/Nancy Cundall/
<b>DATE SIGNED:</b>	05/29/2020

**Total Attachments: 14**

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RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: (AB3935-US) 4884.989US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Yongjun Kwak, Avik Sengupta, Dae Won Lee, Alexei Davydov, Seunghee Han, Gregory Morozov

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement ☐ Change of Name

☒ Other Employee Agreement - Sameer Pawar

Dated December 29, 2013

Execution Date: May 29, 2020, November 20, 2019,  
July 23, 2019, October 25, 2018, November 10, 2018,  
October 25, 2018

2. Name and address of receiving party(ies):

Name: Intel IP Corporation

Street Address: 2200 Mission College Boulevard

City: Santa Clara State: CA Zip: 95054

Country: United States of America

Additional name(s) & address(es) attached? ☐ Yes  
☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 16/127,829

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gregory J. Gorrie

Address:

Schwegman Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, Minnesota 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

☐ Enclosed

☐ Authorized to be charged to deposit account  
190743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 190743

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gregory J. Gorrie/Reg. No. 36,530

Name of Person Signing

Gregory J. Gorrie

Signature

May 29, 2020

Date

Total number of pages including cover sheet: 14

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Mail Stop Assignment Recordation Services

P.O. Box 1450

Alexandria, VA 22313-1450

PATENT  
REEL: 052794 FRAME: 0371

## **ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

**<Yongjun Kwak, Avik Sengupta, Dae Won Lee, Alexei Davydov, Seunghee Han, Gregory Morozov, Sameer Pawar>**

hereby sell, assign, and transfer to:

### **Intel IP Corporation**

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

### **INITIALIZATION OF PSEUDO NOISE SEQUENCES FOR REFERENCE SIGNALS AND DATA SCRAMBLING**

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on September 11, 2018 as

United States of America Application Number 16/127,829

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

and agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute

all Additional Applications, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.



Yongjun Kwak

5-29-2020

Date Signed

Avik Sengupta

Date Signed

Dae Won Lee

Date Signed

Alexei Davydov

Date Signed

Seunghye Han

Date Signed

Gregory Morozov

Date Signed

Sameer Pawar

Date Signed

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_____ Yongjun Kwak	_____ Date Signed
_____  Avik Sengupta	_____ 11/20/2019 Date Signed
_____ Dae Won Lee	_____ Date Signed
_____ Alexei Davydov	_____ Date Signed
_____ Seunghee Han	_____ Date Signed
_____ Gregory Morozov	_____ Date Signed
_____ Sameer Pawar	_____ Date Signed

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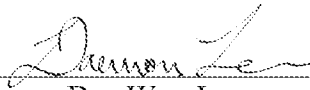
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\_\_\_\_\_  
Yongjun Kwak

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Avik Sengupta

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
  
Dae Won Lee

\_\_\_\_\_  
July 23, 2019  
Date Signed

\_\_\_\_\_  
Alexei Davydov

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Seunghee Han

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Gregory Morozov

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Sameer Pawar

\_\_\_\_\_  
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\_\_\_\_\_  
Yongjun Kwak

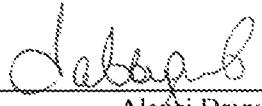
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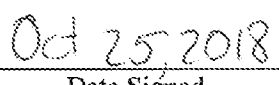
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Dae Won Lee

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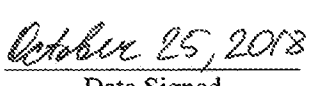
  
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\_\_\_\_\_  
Yongjun Kwak

\_\_\_\_\_  
Date Signed

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Avik Sengupta


\_\_\_\_\_  
Date Signed

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Dae Won Lee

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Date Signed

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Alexei Davydov

\_\_\_\_\_  
Date Signed

  
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Seunghee Han

\_\_\_\_\_  
11/10/18  
Date Signed

\_\_\_\_\_  
Gregory Morozov

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Sameer Pawar

\_\_\_\_\_  
Date Signed

## EMPLOYMENT AGREEMENT

In exchange for being employed by Intel Corporation or any of its subsidiaries, affiliates or successors (collectively called "Intel") in this Agreement, I agree to the following:

### 1. General Conduct.

I will perform my assigned Intel duties and comply with all Intel policies, procedures, guidelines, rules, and instructions, including Intel's Code of Conduct, Employment Guidelines and Corporate Information Security and Security policies.

### 2. Prior Third Party Information.

I will not bring to Intel, disclose to anyone at Intel, or use as part of my Intel work any proprietary or confidential information of any former employer or third party without their written authorization.

### 3. Confidential Information and Intel Property.

During and after my Intel employment, I will hold in strict confidence and not disclose or use any Confidential Information connected with Intel business or the business of any of Intel's suppliers, customers, employees, or contractors unless (i) such disclosure or use is required in connection with my Intel work, (ii) such information becomes lawfully and publicly known outside Intel, or (iii) an Intel officer expressly authorizes such disclosure or use in advance and in writing. For purposes of this Agreement, Confidential Information includes, without limitation: technical information (e.g. roadmaps, schematics, source code, specifications), business information (e.g. product information, marketing strategies, markets, sales, customers, customer lists or phone books), personnel information (e.g. organizational charts, employee lists, skill sets, employee health information, names, phone numbers, email addresses, personnel files, employee compensation except where the disclosure of such personnel information is permissible under local labor law such as the right of employees to discuss compensation and working conditions under the US National Labor Relations Act), and other non-public Intel data and information of a similar nature. I understand and agree that all Confidential Information that I acquire in connection with my Intel employment is Intel's exclusive property. I agree to return to Intel all of its Confidential Information (hard or soft copies; originals and copies) as well as all devices and equipment belonging to Intel (including computers, handheld electronic devices, telephone equipment and other electronic devices) either at the termination of my Intel employment or upon Intel's request. I agree that any violation of this provision will result in immediate and irreparable injuries and harm to Intel, and that Intel shall have the option of pursuing all available legal and equitable remedies, including injunctive relief and specific performance.

### 4. Ownership of Proprietary Developments.

Except as provided in the next sentence, I agree that all trade secrets, copyrights, mask works, trademarks, inventions (including service inventions), discoveries, designs, formulae, processes, methods, manufacturing techniques, improvements, ideas, copyrightable works, and other intellectual property which I create, invent or discover alone or with others during my Intel employment, (collectively "Proprietary Developments") are Intel's sole property from the moment of their creation, invention or discovery. This shall not apply to an invention that I develop entirely on my own time without using Intel equipment, supplies, facilities, or trade secret information, except for those inventions that either: (1) relate at the time of conception or reduction to practice of the invention to Intel business, or actual or demonstrably anticipated research or development of Intel; or (2) result from any work performed by me for Intel. I agree that Intel has and shall always have sole legal and equitable title to all Proprietary Developments and I have no right to compensation for such Proprietary Developments. I agree to promptly disclose Proprietary Developments to Intel, and to the full extent allowed by law, but only to the extent not already owned by Intel pursuant to this Agreement and applicable law, hereby assign to Intel all rights in the Proprietary Developments. I agree that during and after my employment with Intel I will provide all assistance that Intel reasonably requests to secure or enforce its rights throughout the world with respect to Proprietary Developments, including signing all necessary documents to secure or memorialize those rights. If I fail or refuse to sign documents necessary to secure or enforce Intel's rights, or if Intel cannot locate me through the exercise of reasonable diligence, I irrevocably appoint Intel or its designee as my attorney to sign such documents in my name. I waive any rights that I may have in any Proprietary Developments and, to the extent that such waiver is ineffective under applicable law until a Proprietary Development is created, invented or discovered, I agree to waive such rights immediately upon the creation, invention or discovery of such Proprietary Development.

### 5. Licensed and Non-Licensed Preexisting Employee Intellectual Property.

As used in this Agreement "Preexisting Employee Intellectual Property" means intellectual property that I created prior to my employment with Intel.

I have specifically listed in Appendix A all Preexisting Employee Intellectual Property that I, in whole or in part, own or control, or have the right to license and intend to exclude from licensing to Intel ("Identified Employee Controlled Intellectual Property").

I agree that I will not use or disclose during my employment any Identified Employee Controlled Intellectual Property without the prior written consent of Intel. If I disclose or use any Identified Employee Controlled

Intellectual Property without the prior written consent of Intel, I automatically and immediately grant Intel a non-exclusive, non-transferable (except within Intel), perpetual, irrevocable, royalty-free, world-wide license to all of the Identified Employee Controlled Intellectual Property disclosed or used with the right to sublicense, to make, have made, use, sell, offer to sell, import, reproduce, have reproduced, prepare derivative works of, distribute, and otherwise dispose of, any product or document, under all patents, trade secrets, copyrights and copyrightable works, mask works, trademarks, inventions, discoveries, designs, formulae, processes, methods, manufacturing techniques, improvements, and ideas.

I have also listed in Appendix A all Preexisting Employee Intellectual Property in which I have an economic interest (but do not own or control) and for which I do not have the right to grant a license to Intel.

For the avoidance of doubt, I agree that any Preexisting Employee Intellectual Property that I, in whole or in part, own, control or have the right to license and that is neither Identified Employee Controlled Intellectual Property nor identified in Appendix A prior to my employment in sufficient detail to Intel to identify its subject matter is licensed to Intel in the same manner and scope as disclosed or used Identified Employee Intellectual Property.

I agree that if I fail to make any required disclosure or breach any term of Sections 4 and 5, any applicable limitations periods shall be tolled and shall not run as to any claim, right, or cause of action Intel may have relating to such disclosure or breach that would have been discovered had the required disclosure been made, until such time as Intel obtains actual knowledge of the facts giving rise to such claim. Nothing contained in this Section shall limit other remedies otherwise available in law or in equity to Intel.

#### **6. Non-solicitation and Misappropriation of Intel Trade Secrets.**

I agree that for twelve (12) months after my employment ends, I will not solicit, directly or indirectly, any employee to leave his/her employment with Intel. This applies to any employees that were employed with Intel as of my separation date from the company. I further agree that I shall not use or disclose Intel Confidential Information to aid any third party to target, identify, and/or solicit Intel employees to leave Intel employment and/or misappropriate Intel trade secrets. I agree that any violation of this provision will result in immediate and irreparable injuries and harm to Intel, and that Intel shall have the option of pursuing all available legal or equitable remedies, including injunctive relief and specific performance. I understand that nothing in this Agreement prohibits me from disclosing my compensation information to third parties in accordance with applicable law.

#### **7. Computer Communications Are Not Private.**

I acknowledge that use of Intel's computer systems is not private or confidential. I understand and consent to Intel's right to review any communications to or from my work computer, pager, phone or other electronic device and all computer information, including any password-protected employee communications, in accordance with applicable law.

#### **8. At-will Employment (U.S. only)**

I acknowledge that my employment with Intel is "at-will" which means that both Intel and I have the right to terminate my employment at any time, with or without advance notice and with or without cause. I understand that if I become employed by an Intel entity outside the U.S., local employment and termination law will apply if inconsistent with this Agreement.

#### **9. Miscellaneous.**

I understand that if Intel Corporation is not my employer, Intel Corporation is signing this Agreement as agent for the Intel Corporation subsidiary, affiliate or successor that is my employer. The Agreement's terms and conditions are severable. If any part of this Agreement is found or held to be unenforceable in any jurisdiction in which this Agreement is being performed, such provision shall be enforced to the greatest extent permitted by law, and the remainder of this Agreement and such provision as applied to other persons, places or circumstances shall remain in full force and effect. This Agreement: (a) survives my employment with Intel; (b) inures to the benefit of successors and assigns of Intel; and (c) is binding upon my heirs, assigns, and legal representatives. I am not a party to any other agreement which will interfere with my full compliance with this Agreement, except as I have specifically identified in this Agreement. For U.S. employees, only a written agreement, signed by the Vice-President, General Manager of Human Resources can change the "at will" nature of your employment. The remainder of this Agreement may not be modified or amended except in writing, signed by the parties. Only the Vice President, General Manager of Human Resources for Intel Corporation, or the General Counsel of Intel Corporation, or their delegate, has the authority to sign an Agreement modifying the remainder of this Agreement on behalf of Intel. This Agreement is effective the first day of my employment with Intel, and supersedes any prior employee agreement signed by me with Intel, relating to this subject matter. I have carefully read all of the provisions of this Agreement and I understand and will fully and faithfully comply with all provisions.

Intel Corporation



A. Douglas Melamed, Signature General Counsel

Employee

Sameer Pawar [REDACTED] Printed Name & WWID #  
(please print clearly)

Sameer Pawar	12/29/13
Signature	Date

Intel updated Rev. 1/2014