506582596 03/30/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6629377

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOYDEEP RAY	06/19/2020
SCOTT JANUS	09/02/2020
VARGHESE GEORGE	03/25/2020
SUBRAMANIAM MAIYURAN	10/27/2020
ALTUG KOKER	02/01/2021
ABHISHEK APPU	12/03/2020
PRASOONKUMAR SURTI	09/12/2020
VASANTH RANGANATHAN	04/08/2020
VALENTIN ANDREI	06/26/2020
ASHUTOSH GARG	10/20/2008
YOAV HAREL	06/12/2020
ARTHUR HUNTER JR.	06/12/2020
SUNGYE KIM	09/12/2020
MIKE MACPHERSON	05/27/2020
ELMOUSTAPHA OULD-AHMED-VALL	12/04/2020
WILLIAM SADLER	09/25/2020
LAKSHMINARAYANAN STRIRAMASSARMA	08/19/2020
VIKRANTH VEMULAPALLI	07/06/2020

RECEIVING PARTY DATA

Name:	INTEL CORPORATION
Street Address:	2200 MISSION COLLEGE BLVD.
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17064427

CORRESPONDENCE DATA

PATENT REEL: 055765 FRAME: 0001

506582596

Fax Number: (720)815-3362

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.

Phone: 303-589-7202

Email: intel-paralegals@jwmhlaw.com
Correspondent Name: INTEL CORPORATION/JWMH
Address Line 1: 7501 VILLAGE SQUARE DRIVE

Address Line 2: SUITE 206

Address Line 4: CASTLE PINES, COLORADO 80108

ATTORNEY DOCKET NUMBER:	AC8167-PCT-US
NAME OF SUBMITTER:	APRIL PIEPENBURG
SIGNATURE:	/April Piepenburg/
DATE SIGNED:	03/30/2021

Total Attachments: 19

source=AC8167-PCT-US ASSIGNMENT ALL#page1.tif source=AC8167-PCT-US ASSIGNMENT ALL#page2.tif source=AC8167-PCT-US ASSIGNMENT ALL#page3.tif source=AC8167-PCT-US ASSIGNMENT ALL#page4.tif source=AC8167-PCT-US ASSIGNMENT ALL#page5.tif source=AC8167-PCT-US_ASSIGNMENT_ALL#page6.tif source=AC8167-PCT-US ASSIGNMENT ALL#page7.tif source=AC8167-PCT-US ASSIGNMENT ALL#page8.tif source=AC8167-PCT-US ASSIGNMENT ALL#page9.tif source=AC8167-PCT-US_ASSIGNMENT_ALL#page10.tif source=AC8167-PCT-US_ASSIGNMENT_ALL#page11.tif source=AC8167-PCT-US ASSIGNMENT ALL#page12.tif source=AC8167-PCT-US ASSIGNMENT ALL#page13.tif source=AC8167-PCT-US ASSIGNMENT ALL#page14.tif source=AC8167-PCT-US_ASSIGNMENT_ALL#page15.tif source=AC8167-PCT-US ASSIGNMENT ALL#page16.tif source=AC8167-PCT-US ASSIGNMENT ALL#page17.tif source=AC8167-PCT-US ASSIGNMENT ALL#page18.tif source=AC8167-PCT-US_ASSIGNMENT_ALL#page19.tif

<u>ASSIGNMENT</u>

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

Joydeep Ray; Scott Janus; Varghese George; Subramaniam Maiyuran; Altug Koker; Abhishek Appu; Prasoonkumar Surti; Vasanth Ranganathan; Valentin Andrei; Ashutosh Garg; Yoav Harel; Arthur Hunter Jr.; SungYe Kim; Mike Macpherson; Elmoustapha Ould-Ahmed-Vall; William Sadler; Lakshminarayanan Striramassarma; Vikranth Vemulapalli

hereby sell, assign, and transfer to:

Intel 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:

SPARSE OPTIMIZATIONS FOR A MATRIX ACCELERATOR ARCHITECTURE

(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	March 14, 2020		
PCT COUNTRY or let	Application Number	PCT/US20/22846	_ anc

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

Page 1 of 3

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.

Joy Leep Roy	6-19-20
Joydeep Ray 0	Date signed
Scott Janus	Date signed
Varghese George	Date signed
Subramaniam Maiyuran	Date signed
Altag Koker	Date signed
Abhishek Appu	Date signed
Prasoonkumar Surti	Date signed
Vasanth Ranganathan	Date signed
Valentin Andrei	Date signed

Page 2 of 3

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Joydeep Ray	Date signed
Satt 5-	7-2-20
Scott Janus	Date signed
Varghese George	Date signed
Subramaniam Maiyuran	Date signed
Altug Koker	Date signed
Abhishek Appu	Date signed
Prasoonkumar Surti	Date signed
Vasanth Ranganathan	Date signed
Valentin Andrei	Date signed

Page 2 of 3

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Joydeep Ray	Date signed
Scott Janus	Date signed
handelow	3/25/20
Varghese George	Ďate signed
Subramaniam Maiyuran	Date signed
Altug Koker	Date signed
Abhishek Appu	Date signed
Prasoonkumar Surti	Date signed
Vasanth Ranganathan	Date signed
Valentin Andrei Page 2 of 3	Date signed

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	Joydeep Ray	Date signed
•••••••••••••••••••••••••••••••••••••••	Scott Janus	Date signed
	Varghese George	Date signed
	S. Mayaran	<u> (0 27 20</u>
	Subramaniam\Maiyuran	Date signed
	Altug Koker	Date signed
	Abhishek Appu	Date signed
	Prasoonkumar Surtí	Date signed
······································	Vasanth Ranganathan	Date signed
	Valentin Andrei Page 2 of 3	Date signed

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······································	Joydeep Ray	Date signed
	Scott Janus	Date signed
······································	Varghese George	Date signed
	Subramapiam Maiyuran Kh. Hu. Mw.	Date signed 2/1/2021
	Altug Koker	Date signed
······································	Abhishek Appu	Date signed
4"	Prasoonkumar Surti	Date signed
::n-annannannanna	Vasanth Ranganathan	Date signed
şi 		
	Valentin Andrei	Date signed

Page 2 of 3

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Varghese George	Date signed
Subramaniam Maiyuran	Date signed
Altug Koker	Date signed
Abhishek Appu	2/3/2020 Date signed
Prasoonkumar Surti	Date signed
Vasanth Ranganathan	Date signed
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Thento	09 12 20 Date signed
Prasoonkumar Surti	Date signed
Vasanth Ranganathan	Date signed
Valentin Andrei	Date signed

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Varghese George	Date signed
Subramaniam Maiyuran	Date signed
Altug Koker	Date signed
Abhishek Appu	Date signed
Prasoonkumar Surti	Date signed
R. Vasan Kh	04/08/2020
Vasanth Ranganathan	Date signed
Valentin Andrei	 Date signed

Page 2 of 3

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EMPLOYMENT AGREEMENT

In exchange for being employed by Intel Corporation ("intel") or any of its subsidiaries, affiliates or successors (collectively, the "Intel Group"), I agree that:

- 1. General Conduct. While working for any company in the Intel Group, I will perform my assigned duties and comply with all Intel Group policies, procedures, guidelines, rules, and instructions, including Intel's Corporate Code of Conduct. The company within the Intel Group that is my employer is referred to in this Agreement as "Employer"
- 2 Prior Third Party Information 1 represent that I do not possess, have not brought, and will not bring to the intel Group, nor use in the course of the performance of my duties at the Intel Group, any proprietary or confidential information of any former employer or third party without their written authorization
- 3 Confidential Information. At all times, both during and after my employment with any company in the Intel Group, I will not use (except for the benefit and at the direction of the Intel Group) and will hold in confidence and not disclose (without written authorization from a company in the Intel Group, except to the extent I am authorized to do so in the course of my duties) any proprietary information or frade secret (technical, marketing, planning, financial, personnel or otherwise) of the Intel Group or any third party to which I gain access pursuant to my employment, until such information becomes generally and rightfully known outside the Intel Group without non-disclosure restriction, or for the maximum period of time for maintaining trade secrets as permitted by law in the jurisdiction in which I am employed if such period is shorter. I agree not to make unauthorized copies of such confidential information and to return to the Intel Group immediately upon my termination or upon request by my Employer or any other company in the Intel Group all fancible forms of such confidential information, including but not limited to drawings, computerized data or programs, specifications, documents, devices, models, employee lists, customer tists of phone books, or any other Intel Group confidential information. I will, at all times, treat third parties' confidential information, to which I have access during my employment by any company in the Intel Group, as if it were Intel confidential information unless I have been advised of the need to treat that third parties' confidential information differently, in which event I agree to visal such third garbes' confidential information in the manner to which I have been advised. I agree that any breach, walabon or evasion of this provision will result in immediate and irreparable injuries and harm to the Intel Group, and I agree that any company in the Intel Group seeking to enforce this Agreement shall have recourse to the remedies of injunction and specific performance, or either of such remedies, as well as all other legal or equitable remedies to which such company may be entitled
- 4. Ownership of Proprietary Devel opmants. I acknowledge and agree to disclose to the Intel Group, promptly and in confidence, all patents, trade secrets, copyrights, mask works, trademarks, inventions, discoveries, designs, formulae, processes, methods, manufacturing techniques, improvements, ideas, copyrightable works, and other intellectual groperty which I create, invent or discover alone or with others during my employment with any company in the Intel Group ("Propnetary Developments") 1 agree that all Proprietary Developments (i) that were created at least in part not during my own time or (ii) that were created using Employer or other Employer or other Intel Group equipment, supplies, facilities or trade secrets or (iii) that relate at the time of conception or reduction to practice of the invention or creation or discovery to Employer's or other intel Group companies' business, or to actual or demonstrably anticipated research or development of Employer or other Intel Group companies or (iv) that result from any work performed by me for Employer or other Intel Group companies are, from the moment of their creation, invention or discovery, the sole property of Employer or Employer's designee ("Intel Proprietary Developments"). I acknowledge and agree that Employer or such other entity within the Intel Group that Employer designates has and shall for all time have sole legal and equitable title to all Intel Proprietary Developments. Without additional compensation, 1 (a) agree promptly to disclose and (b) to the full extent allowed by law but only to the extent not already owned by Employer pursuant to this Agreement and applicable law, hereby assign to Employer (or such other company in the Intel Group as may be designated by Employer), all rights in the Intel Propoetary Developments. I further agree that, both during and after my employment with any company in the Intel Group, I will provide all assistance reasonably requested by Employer at Employer's (or its designae's) reasonable expense, to secure and enforce its rights throughout the world with respect to the Intel Proprietary Developments. I agree to execute any and all documents (including assignment agreements) reasonably requested by Employer or its designee to memorialize the ownership of the Intel Proprietary Developments by Employer or its designee ("Ownership Documents"). To the extent that I fail or refuse to execute Ownership Documents, or cannot be located by Employer through the exercise of reasonable diligence, I hereby irrevocably appoint Employer or its designee as my attorney in fact to execute Ownership Documents in my name. I hereby waive any pre-emptive or other rights that I may have in all titlet Proprietary Developments and, to the extent that such waiver is ineffective under applicable law until such an Intel Proprietary Development is created, invented or discovered, I hereby agree to waive such pre-emptive or other rights immediately upon the creation, invention or discovery of such Intel Proprietary Development

Notwithstanding anything else in this agreement, I have been notified and further understand that Intel Proprietary Developments do not include inventions which I developed entirely on my own time without using Intel Group equipment, supplies, facilities, or trade secret information, except for inventions which either (i) retails at the time of conception or reduction to practice of the invention to the Intel Group's business, or actual or demonstrably anticipated research or development of the Intel Group or (ii) result from any work performed by me for the Intel Group

5. Licensed Employee Intellectual Property. The purpose of this section 5 is to enable the Intel Group to determine their rights and risks as to any intellectual property rights, whether vested or pending, which I own or control in whole or in part, prior to joining any company in the Intel Group ("Preexisting Employee Intellectual Property"). Unless identified on Appendix A with sufficient particularity to allow the Intel Group to identify the subject matter of the Preexisting Employee Intellectual Property, I hereby grant Employer (or its designee within the Intel Group) a non-exclusive, non-transferable (except within the Intel Group), perpetual, inevocable, royally-free, world-wide license, 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, mask works, trademarks, inventions, discovenes, designs, formulae, processes, methods, manufacturing techniques, improvements, ideas, copyrightable works, and other Preexisting Employee Intellectual Property To be clear, the incense to Preexisting Employee Intellectual Property excludes Proportary Developments as defined in section 4, or Preexisting Employee Intellectual Properly identified as required above in Appendix A at the time of my execution of this Agreement and submitted directly by me to Intel Legal such that it is actually received by Intel Legal within five working days of my

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

- 6. Non-solic dation, Lagree that for 12 (twelve) months after my employment ends, regardless of the reason d ends, Livill not solicit, directly or indirectly, any employee to leave his/her employment with any company in the Intel Group. By way of example, I (a) shall not identify any employees working for any Intel Group company to any third party as potential employment candidates; (b) shall not identify any employees working for any Intel Group company to any third party as potential employment candidates; (b) shall not identify any employees working for any Intel Group. solicit employees working for any tritlet Group company to work for any other employer; and/or (c) will not disclose or use information I teamed by virtue of my employment concerning the identities, compensation or stalls of any employee for the purpose of soliciting any employee to leave his/her employment with any company in the Intel Group. I agree that any breach, violation or evasion of this provision will result in immediate and imegarable injuries and harm to the Intel Group, and Lagree that the Intel Group company seeking to enforce this Agreement shall have recourse to the remedies of injuriction and specific performance, or either of such remedies, as well as all other legal or equitable remedies to which such company may be entitled
- 7 Computer Communications are Not Private. Lunderstand that although the companies within the Intel Group permit reasonable personal use of networked computer equipment, these resources and all information contained on them are the sole property of companies within the Intel Group. Computer use is not private or confidential, and someone other than the intended addressee may receive the message. Lundersland and consent to my Employer's and/or the Intel Group's interception and review of both incoming and outgoing email, internet and all computer information, including any password-protected employee communications
- 8 Miscellaneous 1 understand that if Intel is not my Employer, Intel is signing this Agreement as agent for the Intel Group company that is my Employer. I understand and agree that my employment with any company in the Intel Group is "at will." This means that both my Employer and I have the right to terminate my employment at any time, with or without advance notice and with or without cause (provided, however, that if I become employed by an Intel Group company in a non U.S. location, the termination law of that country will apply if inconsistent with this Agreement)

The terms and conditions stated herein are severable, if any paragraph, provision, or clause in this Agreement is found or held to be invalid, unenforceable or void 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 occumistances shall remain in full force and effect

This Agreement, (a) survives my employment with any company or companies in the Intel Group, (b) incres to the benefit of successors and assigns of my Employer (including successors within the Intel Group), and (c) is binding upon my heirs, assigns, and legal representatives. To the best of my information and bekef, I am not a party to any other agreement which will interfere with my full compliance with this Agreement, except as specifically identified herein

This Agreement may not be modified or amended except in a writing signed by the parties. Only the Vice President of Human Resources, Intel Corporation, or his or her delegate, or the General Counsel of Intel Corporation, or his or her delegate, has the authority to modify this agreement on behalf of the Intel Group

This Agreement is affective as of my first day of employment with any company in the Intel Group, remains in effect if I become employed by any other company in the Intel Group (which shall then become my Employer hereunder) and supersedes any prior Employee Agreement signed by me with any company in the Intel Group.

I have carefully read all of the provisions of this Agreement and I understand and will fully and faithfully comply with such provisions Intel Corporation

) made

D. Bruce Sewell Vice President and General Counsel Ashutob Gay Signature ASHUTOSH GARG;

Printed Name & WWID # (please print clearly)

10/20/08

Social Security Number

Ashutosh Garg	Date signed
	6/12/2020
Yoav Harel	Date signed
Arthur Hunter Jr.	Date signed
SungYe Kim	Date signed
Mike Macpherson	Date signed
Mac Macpherson	Dute signed
Elmoustapha Ould-Ahmed-Vall	Date signed
William Sadler	Date signed
Lakshminarayanan Striramassarma	Date signed
Vikranth Vemulapalli	Date signed

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Vikranih Vemulapsili	Date signed

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Arthur Hunter Jr.	Date signed
_ NOLLIN	9/12/2022
SungYe Kim	Date signed
Mike Macpherson	 Date signed
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Elmoustapha Ould-Ahmed-Vall	Date signed
William Sadler	Date signed
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Lakshminarayanan Striramassarma	Date signed
Vikranth Vemulapalli	Date signed

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MidMaSter	5/27/2020
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Mike Macpherson	Date signed
The Open	12/04/2020 Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
William Sadler	Date signed
Lakshminarayanan Striramassarma	Date signed
Vikranth Venudapalli	Date signed

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SungYe Kim	Date signed
Mike Macpherson	Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
12 M. S. O. M.	
- William Sidler	9/25/2020
William Sadler	Date signed
T. I. I	
Lakshminarayanan Striramassarma	Date signed
Vikranth Vemulanalli	Date signed

Ashutosh Garg	Date signed
Yoav Harel	Date signed
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Elmoustapha Ould-Ahmed-Vall	Date signed
William Sadler	Date signed
alahad	00-19-2020
Lakshminarayanan Striramassarma	Date signed
Vikranth Vemulapalli	Date signed

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SungYe Kim	Date signed
Mike Macpherson	Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
William Sadler	Date signed
Lakshminarayanan Striramassarma	Date signed
V. Vikaatte	07/06/2020
Vikranth Vemulanalli	Date signed

Page 3 of 3