PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOYDEEP RAY	07/11/2022
ALTUG KOKER	09/14/2022
VARGHESE GEORGE	09/20/1993
MIKE MACPHERSON	09/07/2022
ARAVINDH ANANTARAMAN	08/13/2022
ABHISHEK R. APPU	07/11/2022
ELMOUSTAPHA OULD-AHMED-VALL	07/11/2022
NICOLAS GALOPPO VON BORRIES	07/11/2022
BEN ASHBAUGH	08/24/2022

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:	17849201

CORRESPONDENCE DATA

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 INTEL CORPORATION/JWMH **Correspondent Name:** 7501 VILLAGE SQUARE DRIVE Address Line 1:

Address Line 2: SUITE 206

Address Line 4: CASTLE PINES, COLORADO 80108

ATTORNEY DOCKET NUMBER:	AC0183-US
NAME OF SUBMITTER:	APRIL PIEPENBURG

PATENT REEL: 061288 FRAME: 0285 507523700

SIGNATURE:	/April Piepenburg/	
DATE SIGNED:	10/03/2022	
Total Attachments: 10		
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PATENT REEL: 061288 FRAME: 0286

ASSIGNMENT

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

JOYDEEP RAY, ALTUG KOKER, VARGHESE GEORGE, MIKE MACPHERSON, ARAVINDH ANANTARAMAN, ABHISHEK R. APPU, ELMOUSTAPHA OULD-AHMED-VALL, NICOLAS GALOPPO VON BORRIES, BEN ASHBAUGH

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:

INSTRUCTION BASED CONTROL OF MEMORY ATTRIBUTES

(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	June 24, 2022			as
US		Application Number	17/849,201	and
COUNTRY or Inte	rnational Office			

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,

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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

January Pay Joydeep Ray	7-11-22
Joydeep Ray	Date signed
Altug Koker	Date signed
Varghese George	Date signed
Mike Macpherson	Date signed
Aravindh Anantaraman	Date signed
Abhishek R. Appu	Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
Nicolas Galoppo von Borries	Date signed
Ben Ashbaugh	Date signed

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Joydeed Ray Alting Koker	Date signed 9/14/2022 Date signed
Varghese George	Date signed
Mike Macpherson	Date signed
Aravindh Anantaraman	Date signed
Abhishek R. Appu	Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
 Nicolas Galoppo von Borries	Date signed
Ben Ashbaugh	Date signed

EMPLOYEE AGREEMENT

Corporate NEO Document

In exchange for being employed by Intel Corporation, its subsidiaries, affiliates, or successors (hereinafter "INTEL"), I agree that:

2	Without additional compensation, I will promptly disclose and, to the full extent allowed by law, assign to INTEL all rights to
F	A A SAN TO THE PROPERTY OF THE
	which I may be entitled with respect to designs, trademarks, copyrights, maskworks, discoveries, formulae, processes
	manufacturing techniques, trade secrets, inventions, improvements, ideas or copyrightable works; (i) relating to INTEL's
	business, whether or not developed during normal working hours; or (ii) which were developed with the use or aid of any
	INTEL equipment, supplies, or facilities; or (iii) which used any proprietary or confidential information of INTEL or proprietary
	or confidential information of a third party, access to which I obtained through INTEL.

4. At all times, both during and after my INTEL employment, I will do whatever is reasonably requested by INTEL, at INTEL's expense, to assist INTEL in obtaining and enforcing INTEL's rights throughout the world with respect to the assignments which I have made or am obligated to make to INTEL under this Agreement.

5. At all times, both during and after my employment by INTEL, I will hold in confidence and will not use (except for the benefit At at times, both caring and after my employment by 1912 EL, 1 will hold in confidence and will not use (except for the benefit of INTEL) or disclose without INTEL's written authorization any infold in confidence and will not use (except for the benefit during the period of my employment which pertains to any aspect of INTEL's business and is either unknown to actual or potential competitors of INTEL or is proprietary or confidential information of INTEL, its customers, or its suppliers, until such information either becomes generally known outside INTEL by legal means, or for the maximum period of time for maintaining trade secrets as permitted by law in the state 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 INTEL upon my termination, or upon INTEL's request, all tangible forms of such confidential information including drawings, computerized data or programs, specifications, documents, devices, models, list of employees, or any other INTEL confidential material.

;		
7.		
3.		
9.		

10. I certify and acknowledge that I have carefully read all of the provisions of this Agreement and that I understand and will fully and faithfully comply with such provisions.

INTEL

F. THOMAS DUNLAP, Vice President,

General Counsel and Secretary

George

Printed Name (please print clearly)

S€

Social Security Number

Date

CANARY COPY - Employe

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3.

6.

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REEL: 061288 FRAME: 0290

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

Joydeep Ray	Date signed
Altug Koker	Date signed
Varghese George	Date signed
Mallaster	9/7/2022
Mike Macpherson	Date signed
Aravindh Anantaraman	Date signed
Abhishek R. Appu	Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
Nicolas Galoppo von Borries	Date signed
Ben Ashbaugh	Date signed

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Joydeep Ray	Date signed
Altug Koker	Date signed
Varghese George	Date signed
Mike Macpherson	Date signed
a. O mindle	08 13 2022 Date signed
Aravindh Anantaraman	Date signed
Abhishek R. Appu	Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
Nicolas Galoppo von Borries	Date signed
Ben Ashbaugh	Date signed

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Joydeep Ray	Date signed
Altug Koker	Date signed
Varghese George	Date signed
Mike Macpherson	Date signed
Aravindh Anantaraman Alberta R. Alberta	Date signed
Abhishek R. Appu	Date signed
Elmoustapha Ould-Ahmed-Vall	Date signed
Nicolas Galoppo von Borries	Date signed
Ben Ashbaugh	Date signed

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

Joydeep Ray	Date signed
Altug Koker	Date signed
Varghese George	Date signed
Mike Macpherson	Date signed
ravindh Anantsraman	Date signed
Abhishek-R. Appu	Date signed
(0)220	07/11/2022
Elmoustapha Ould-Ahmed-Vali	Date signed
Nicolas Galoppo von Borries	Date signed
en Ashbaugh	Date signed

Page 2 of 2

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Joydeep Ray		Date signed	
Altug Koker		Date signed	
Varghese George	········	Date signed	
Mike Macpherson		Date signed	
Aravindh Anantaraman		Date signed	·····
Abhishek R. Appu	······	Date signed	
Elmoustapha Ould-Ahmed-Vall		Date signed	
		7/11/2022	
Nicolas Galoppo von Borries		Date signed	
Ben Ashbaugh		Date signed	

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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, dersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Joydeep Ray	Date signed	
Altug Koker	Date signed	
Varghese George	Date signed	
Mike Macpherson	Date signed	
Aravindh Anantaraman	Date signed	
Abhishek R. Appu	Date signed	
Elmoustapha Ould-Ahmed-Vall	Date signed	
Nicolas Galoppo von Borries	Date signed	
5~~	AUGUST 29,2022	
Ben Ashbaugh	Date signed	

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RECORDED: 10/03/2022