## 505326090 02/12/2019

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ				
		Name	Execution Date		
ALEXANDER HEINECK	E		10/31/2018		
DIPANKAR DAS			12/10/2018		
ROBERT VALENTINE			12/18/2018		
MARK CHARNEY			10/16/2018		
RECEIVING PARTY DA	TA				
Name:	INTEL CO	ORPORATION			
Street Address:	2200 MISSION COLLEGE BOULEVARD				
City:	SANTA C	SANTA CLARA			
State/Country:	CALIFOF	RNIA			
Postal Code:	95054				
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Property Type		Number			
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Application Number: CORRESPONDENCE D Fax Number: Correspondence will by using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE:	PATA (4 e sent to t provided; 4( ca N 99 S/	08)675-0442 he e-mail address first; if that is unsu if that is unsuccessful, it will be sent 08-675-0441 arla@ndwe.com DWE LLP/INTEL 9 ALMADEN BOULEVARD, SUITE 710 AN JOSE, CALIFORNIA 95113 42AA7490-US THOMAS C. WEBSTER, REG. NO, /Thomas C. Webster/	via US Mail.		
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## ASSIGNMENT

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

#### ALEXANDER HEINECKE; DIPANKAR DAS; ROBERT VALENTINE; MARK CHARNEY

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:

## APPARATUS AND METHOD FOR VECTOR MULTIPLY AND ACCUMULATE OF PACKED BYTES

(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	January 24, 2018	as	
US COUNTRY or Inter	Application Number	15/879,419	and

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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### PATENT REEL: 048314 FRAME: 0324

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 a herein expressed is possessed by the undersigned.

DER HEINECKE

<u>/6/3/ / /}</u> Date signed

DIPANKAR DAS

Date signed

**ROBERT VALENTINE** 

Date signed

MARK CHARNEY

Date signed

#### PATENT REEL: 048314 FRAME: 0325

Page 2 of 2

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.

ALEXANDER HEINECKE

Date signed

Date signed

10 Dec 2018

Dipersh DIPANKAR DAS

JIPANKAK DAS

ROBERT VALENTINE

MARK CHARNEY

÷.,

Date signed

Date signed

Page 2 of 2

#### PATENT REEL: 048314 FRAME: 0326

assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignce, 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

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ALEXANDER HEINECKE

Date signed

Date signed

<u>18 2018</u> Date signed

**DIPANKAR DAS** 

ALENTINE ROBER

MARK CHARNEY

Date signed

Page 2 of 2

PATENT REEL: 048314 FRAME: 0327

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

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#### ALEXANDER HEINECKE

Date signed

DIPANKAR DAS

ROBERT VALENTINE

MARK CHARNEY

Date signed

Date signed

2018-10-16

Date signed