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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ABHISHEK SHARMA	02/12/2020
WILLY RACHMADY	02/12/2020
VAN H. LE	02/18/2020
JACK T. KAVALIEROS	02/12/2020
GILBERT DEWEY	02/12/2020
MATTHEW METZ	02/12/2020

RECEIVING PARTY DATA

Name:	e: Intel Corporation	
Street Address:	treet Address: 2200 Mission College Boulevard	
City: Santa Clara		
State/Country: CALIFORNIA		
Postal Code:	95054	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16457626	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	AB7759-US 111548-246750
NAME OF SUBMITTER:	JUSTIN K. BRASK
SIGNATURE:	/Justin K. Brask/
DATE SIGNED:	03/11/2020

Total Attachments: 2

PATENT REEL: 052148 FRAME: 0111 source=AB7759-US_ASSIGN_Executed#page1.tif source=AB7759-US_ASSIGN_Executed#page2.tif

PATENT REEL: 052148 FRAME: 0112 Attorney's Docket No.: AB7759-US 111548-246750

ASSIGNMENT

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

Abhishek SHARMA, Willy RACHMADY, Van H. LE, Jack T. KAVALIEROS, Gilbert DEWEY and Matthew METZ

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 ("Assignce") and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States a"nd all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

CHANNEL FORMATION FOR THREE DIMENSIONAL TRANSISTORS

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

\$ 3 C	Iconitemetal ve	Application Number	- 16/457 626	Films	June 28, 2019
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and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or 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 provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or 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 or 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 or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

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

Each Inventor: Please Sign and Date Below:

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Treate

2/12/2020

2/18/2020 Date

2/12/2020

Date

<u>2/12/2620</u> Note

2/12/2020

Date

Name: Al

Abhishek SHARMA

Name: Willy RACHMADY

^{áme:} Van H. LE

Name: Jack T. KAVALJEROS

Name: Gilbert DEWEY

Name: Matthew METZ

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