505479694 05/16/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAVI PILLARISETTY	12/19/2016
ABHISHEK A. SHARMA	12/19/2016
VAN H. LE	12/19/2016
GILBERT W. DEWEY	12/20/2016
JACK T. KAVALIEROS	01/13/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16461522

CORRESPONDENCE DATA

Fax Number: (972)226-4837

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Address Line 4: ROCKWALL, TEXAS 75032

ATTORNEY DOCKET NUMBER:	P109523PCT-US
NAME OF SUBMITTER:	LISE ANN RUGGERI-KALIL
SIGNATURE:	/LISE ANN RUGGERI-KALIL/
DATE SIGNED:	05/16/2019
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Total Attachments: 3

PATENT REEL: 049199 FRAME: 0117 source=2019-5-16--FILED--Executed Assignment#page1.tif source=2019-5-16--FILED--Executed Assignment#page2.tif source=2019-5-16--FILED--Executed Assignment#page3.tif

PATENT REEL: 049199 FRAME: 0118

Attorney Docket No.: P109523PCT

ASSIGNMENT

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

Ravi Pillarisetty, Abhishek A. Sharma, Van H. Le, Gilbert W. Dewey, and Jack T. Kavalieros

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, 95054-1549 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:

VERTICAL TRANSISTOR DEVICES AND TECHNIQUES

(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 <u>24 December</u> 2016 as <u>PCT</u> Application Number <u>PCT/US2016/068600</u> and COUNTRY or International 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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Attorney Docket No.: P109523PCT

, 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.

	12(14/6
Revi Pillarisetty	Date signed
Alana	12 19 2016
Abhishek A. Sharma	Date signed
<u> </u>	12/19/2016
Van H. Le	Date signed
Siller Demy	12/20/16
Gilbert W. Dewey	Date signed
Jack T. Kavalieros	Date signed

Attorney Docket No.: P109523PCT

, 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.

Ravi Pillarisetty	Date signed
Abhishek A. Sharma	Date signed
Van H. Le	Date signed
Gilbert W. Dewey	Date signed
Jack T. Kavalieros	ノ <u>/ス/</u> 子 Date signed

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