01/21/2016 503658176

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID J LLAPITAN	01/20/2016
JEFFORY L SMALLEY	01/20/2016
GAURAV CHAWLA	01/16/2015
JOSHUA D HEPPNER	01/19/2015
VIJAYKUMAR KRITHIVASAN	01/16/2015
JONATHAN W THIBADO	01/20/2016
KUANG LIU	01/12/2015
GREGORIO MURTAGIAN	01/16/2015

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:	14583372

CORRESPONDENCE DATA

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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.

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SCHWEGMAN, LUNDBERG & WOESSNER/INTEL **Correspondent Name:**

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ATTORNEY DOCKET NUMBER:	884.S16US1
NAME OF SUBMITTER:	NANCY CUNDALL
SIGNATURE:	/ Nancy Cundall /

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REEL: 037544 FRAME: 0081 503658176

DATE SIGNED:	01/21/2016
Total Attachments: 5	
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RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 884.S16US1 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Intel Corporation David J. Llapitan, Jeffory L. Smalley, Gaurav Chawla, Joshua D. Heppner, Vijaykumar Krithivasan, Jonathan Street Address: 2200 Mission College Blvd. W. Thibado, Kuang Liu, Gregorio Murtagian City: Santa Clara State: CA Zip: 95054 Country: United States of America Additional name(s) of conveying party(ies) attached? Additional name(s) & address(es) attached? []Yes [X]No []Yes [X]No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name Execution Date: <u>January 20, 2016, January 20, 2016, January 16, 2015, January 19, 2015, January 16, 2015</u> <u>January 20, 2016, January 12, 2015</u>, <u>January 16, 2015</u> 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 14/583,372 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Andrew R. Peret Enclosed [Authorized to be charged to deposit account Address: 504238 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, MN 55402--0938 payments to our Deposit Account No.: 504238 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. 1 andrew Peret 1 Andrew R. Peret/Reg. No. 41,246 Name of Person Signing Total number of pages including cover sheet: 5 Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450

Alexandria, VA 22313-1450

Intel Docket No.: P78389 SLW Reference No.: 884.S16US1

ASSIGNMENT

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

<David J. Llapitan, Jeffory L. Smalley, Gaurav Chawla, Joshua D Heppner, Vijaykumar Krithiyasan, Jonathan W. Thibado, Kuang Liu, Gregorio Murtagian>

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:

ELECTRONIC ASSEMBLY THAT INCLUDES A PLURALITY OF ELECTRONIC PACKAGES

(I bereby 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 December 26, 2014 as

United States of America Application Number 14/583,372

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 2

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.

David J. Llapitan Hy L Smalley Jestory L. Smalley	Date Signed 1/20/2016 Date Signed
Gaurav Chawla	Date Signed
Joshua D Heppner	Date Signed
Vijaykumar Kriibivasan Vijaykumar Kriibivasan Jonathan W. Thibado	Date Signed // // // / Date/Signed
Kuang Liu	Date Signed
Gregorio Murtagian	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, and that full right to convey the same as herein expressed is possessed by the undersigned.

David J. Llapitan	Date Signed
Jeffory L. Smalley	Date Signed
10mil	01/16/2015
/Gaurav Chawla	Date Signed
Delia D Hygoron	01/19/2015
Joshua D Heppner	Date Signed
Hvysylmer	01/16/2015
Vijaykumar Krithivasan	Date Signed
Jonathan W. Thibado	Date Signed
	1/12/2018
Kuang Liu	Date Signed
5 mil	01/16/2015
Gregorio Murtagian	Date Signed

Page 2 of 2