

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4257977

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL W. CHYNOWETH	01/12/2017
JONATHAN D. COMBS	01/04/2017
JOSEPH K. OLIVAS	12/27/2016
BEEMAN C. STRONG	01/20/2017
RAJSHREE A. CHABUKSWAR	01/31/2017
AHMAD YASIN	01/18/2017
JASON W. BRANDT	01/04/2017
OFER LEVY	01/27/2017
JOHN M. ESPER	01/04/2017
ANDREAS KLEEN	01/06/2017
CHRISTOPHER M. CHRULSKI	01/12/2017
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:	15423143
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Email:	mkrueger@lowenstein.com
Correspondent Name:	LOWENSTEIN SANDLER LLP
Address Line 1:	900 2ND AVENUE SOUTH SUITE 600
Address Line 2:	C/O CPA GLOBAL
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	P110611
NAME OF SUBMITTER:	DEVIN W. MILLER
SIGNATURE:	/Devin W. Miller/
DATE SIGNED:	02/03/2017

Total Attachments: 11

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ASSIGNMENT

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

MICHAEL W. CHYNOWETH; JONATHAN D. COMBS; JOSEPH K. OLIVAS; BEEMAN C. STRONG; RAJSHREE A. CHABUKSWAR; AHMAD YASIN; JASON W. BRANDT; OFER LEVY; JOHN M. ESPER; ANDREAS KLEEN; CHRIS CHRULSKI

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:

BRANCH TYPE LOGGING IN LAST BRANCH REGISTERS

(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 February 2, 2017 as

U.S. Application Number 15/423,143 and
COUNTRY or International Office

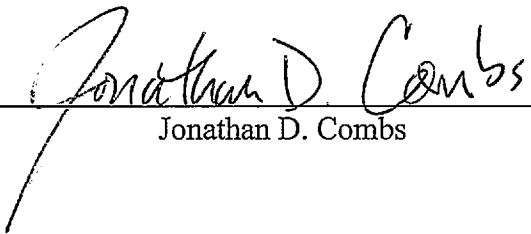
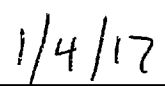
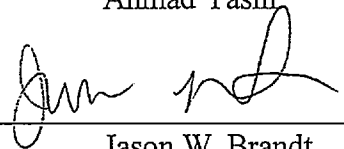
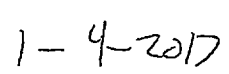
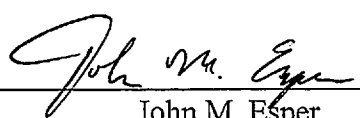
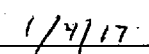
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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, 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.

_____ Michael W. Chynoweth	_____ Date signed
 _____ Jonathan D. Combs	 _____ Date signed
_____ Joseph K. Olivas	_____ Date signed
_____ Beeman C. Strong	_____ Date signed
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_____ Rajshree A. Chabukswar	_____ Date signed
Ahmad Yasin  _____ Jason W. Brandt	_____ Date signed  _____ Date signed
_____ Ofer Levy	_____ Date signed
 _____ John M. Esper	 _____ Date signed

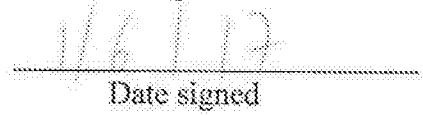
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_____ Michael W. Chynoweth	_____ Date signed
_____ Jonathan D. Combs	_____ Date signed
_____  Joseph K. Olivas	_____ 12/27/2016 Date signed
_____ Beeman C. Strong	_____ Date signed
_____ Rajshree A. Chabukswar	_____ Date signed
_____ Ahmad Yasin	_____ Date signed
_____ Jason W. Brandt	_____ Date signed
_____ Ofer Levy	_____ Date signed
_____ John M. Esper	_____ Date signed



Andreas Kleen



Date signed

Chris Chrulski

Date signed

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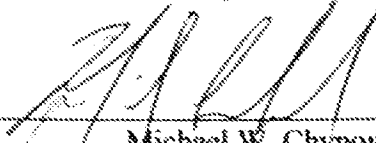
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the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, 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.



 Michael W. Chynoweth

11/2/2017

 Date signed

 Jonathan D. Combs

 Date signed

 Joseph K. Olivas

 Date signed

 Beeman C. Strong

 Date signed

 Rajshree A. Chabukswar

 Date signed

 Ahmad Yasin

 Date signed

 Jason W. Brandt

 Date signed

 Ofer Levy


 Date signed

 John M. Esper

 Date signed

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_____ Michael W. Chynoweth	_____ Date signed
_____ Jonathan D. Combs	_____ Date signed
_____ Joseph K. Olivas	_____ Date signed
_____  Beeman C. Strong	_____ 1/20/17 Date signed
_____ Rajshree A. Chabukswar	_____ Date signed
_____ Ahmad Yasin	_____ Date signed
_____ Jason W. Brandt	_____ Date signed
_____ Ofer Levy	_____ Date signed
_____ John M. Esper	_____ Date signed

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Date signed

R. A. Chabukswar

Rajshree A. Chabukswar

01/31/17

Date signed

Ahmad Yasin

Date signed

Jason W. Brandt

Date signed

Ofer Levy

Date signed

John M. Esper

Date ~~PATENT~~

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Date signed

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Date signed

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Date signed



Ahmad Yasin

18 Jan 2017

Date signed

Jason W. Brandt

Date signed

Ofer Levy

Date signed

John M. Esper

Date signed

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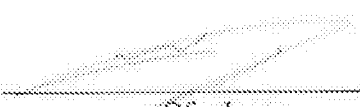
Date signed

Ahmad Yasin

Date signed

Jason W. Brandt

Date signed



Ofer Levy

2/21/2012

Date signed

John M. Esper

Date signed

Andreas Kleen

Date signed

Christopher M. Chrulski

Christopher M. Chrulski

1/12/17

Date signed