

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4562036

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RESHMA LAL	07/12/2017
GIDEON GERZON	07/17/2017
BARUCH CHAIKIN	08/23/2017
SIDDHARTHA CHHABRA	07/13/2017
PRADEEP M. PAPPACHAN	07/12/2017
BIN XING	07/13/2017
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:	15628008
CORRESPONDENCE DATA	
Fax Number:	(317)231-7433
<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>	
Phone:	317-231-1313
Email:	ktyree@btlaw.com
Correspondent Name:	BARNES & THORNBURG LLP
Address Line 1:	11 S. MERIDIAN STREET
Address Line 4:	INDIANAPOLIS, INDIANA 46204
ATTORNEY DOCKET NUMBER:	P116014/45631-263738
NAME OF SUBMITTER:	GLEN MADISON KELLETT
SIGNATURE:	/Glen Madison Kellett/
DATE SIGNED:	08/23/2017
Total Attachments: 5	

source=P116014 exec assign#page1.tif
source=P116014 exec assign#page2.tif
source=P116014 exec assign#page3.tif
source=P116014 exec assign#page4.tif
source=P116014 exec assign#page5.tif

ASSIGNMENT

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

**RESHMA LAL; GIDEON GERZON; BARUSH CHAIKIN; SIDDHARTHA CHHABRA;
PRADEEP M. PAPPACHAN; BIN XING**

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:

**TECHNOLOGIES FOR TRUSTED I/O WITH A CHANNEL IDENTIFIER FILTER AND
PROCESSOR-BASED CRYPTOGRAPHIC ENGINE**

(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 June 20, 2017 as
United States Application Number 15/628,008 and

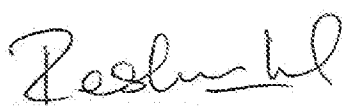


which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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, 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.

 _____ Reshma Lal	<u>7/12/17</u> Date signed
_____ Gideon Gerzon	_____ Date signed
_____ Baruch Chaikin	_____ Date signed
 _____ Siddhartha Chhabra	<u>7/13/2017</u> Date signed
 _____ Pradeep M. Pappachan	<u>7.12.2017</u> Date signed
_____ Bin Xing	_____ Date signed


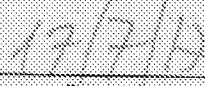
Assignee: INTEL CORPORATION

Name of Representative of Legal Entity: _____

Signature: _____

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.

_____	_____
Reshma Lal	Date signed
	
_____	_____
Gideon Gerzon	Date signed
_____	_____
Baruch Chaikin	Date signed
_____	_____
Siddhartha Chhabra	Date signed
_____	_____
Pradeep M. Pappachan	Date signed
_____	_____
Bin Xing	Date signed

Assignee: INTEL CORPORATION

Name of Representative of Legal Entity: _____

Signature: _____

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.

..... Reshma Lal Date signed
..... Gideon Gerzon Date signed
..... Baruch Chaikin 23.8.17 Date signed
..... Siddhartha Chhabra Date signed
..... Pradeep M. Pappachan Date signed
..... Bin Xing Date signed

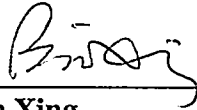
Assignee: INTEL CORPORATION

Name of Representative of Legal Entity: _____

Signature: _____

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.

_____ Reshma Lal	_____ Date signed
_____ Gideon Gerzon	_____ Date signed
_____ Baruch Chaikin	_____ Date signed
_____ Siddhartha Chhabra	_____ Date signed
_____ Pradeep M. Pappachan	_____ Date signed
_____  Bin Xing	_____ 07-13-2017 Date signed

Assignee: INTEL CORPORATION

Name of Representative of Legal Entity: _____

Signature: _____