PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NIKOLAY KOSAREV	11/07/2016
SERGEY Y. SHISHLOV	11/03/2016
JAYESH IYEL	11/16/2016
ALEXANDER V. BUTUZOV	11/14/2016
BORIS A. BABAYAN	11/07/2016
ANDREY KLUCHNIKOV	11/23/2016

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:	15103765

CORRESPONDENCE DATA

Fax Number: (512)322-2501

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.

Phone: 5123222508

juli.luong@bakerbotts.com Email:

BAKER BOTTS L.L.P. C/O CPA GLOBAL **Correspondent Name:** Address Line 1: 900 2ND AVENUE SOUTH, SUITE 600 Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	081903.0561
NAME OF SUBMITTER:	JULI LUONG
SIGNATURE:	/Juli Luong/
DATE SIGNED:	12/06/2016

Total Attachments: 5

PATENT REEL: 040535 FRAME: 0965

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PATENT REEL: 040535 FRAME: 0966 081903.0561 Attorney Docket No.: P61109US

ASSIGNMENT

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

KOSAREV, NIKOLAY; SHISHLOV, SERGEY Y.; IYER, JAYESH; BUTUZOV, ALEXANDER V.; BABAYAN, BORIS A.; KLUCHNIKOV, ANDREY

hereby sell, assign, and transfer to:

COUNTRY or International Office

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:

INSTRUCTION AND LOGIC FOR IDENTIFYING INSTRUCTIONS FOR RETIREMENT IN A MULTI-STRAND OUT-OF-ORDER PROCESSOR

	est any attorney having appropri ad application number of said ap	ate authority from the assignee to it plication when known.)	isert on the designated
which was filed on	June 10, 2016		ુલક

Application Number 15/103,765

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.

Page 1 of 2

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.

VL	November 7,201
Nikolay Kosarev	Date signed
Sergey Y. Shishlov	Date signed
Jayesh Iyer	Date signed
A A	Nov 14, 2016
Alexander V. Butuzov	Date signed
Canal Cana	
Boris A. Babayan	Date signed
Andrey Kluchnikov	Date signed

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Nikolay Kosarev	Date signed
Mercan	November 3, 2016
Sergey Y. Shishlov	Date signed
Jayesh Iyer	Date signed
Alexander V. Butuzov	Date signed
Boris A. Babayan	Date signed
Andrey Kluchnikov	Date signed

Attorney Docket No.: P61109US

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Nikolay Kosarev	Date signed
Sergey Y. Shishlov	Date signed 16 th Nov 2016
Jayesh Lyer	Date signed
Alexander V. Butuzov	Date signed
Boris A. Babayan	Date signed
Andrey Kluchnikov	 Date signed

onautoming proper patent protection for said inventions and improvements and for vesting title in soid invention in improvements, and all applications for patents and all patents on said improvements in said Assonics is account accounts and Legal representatives; and

coveriors with ead. Assigned, its roccessors, assigns, and legal representatives that no assignment with ead separated affecting the higher and properly herein conveyed has been made to their agreement affecting the higher and properly herein conveyed has been made to their decimal decimals and that full right to convey the same as herein expressed is possessed by the understand.

Vikolay Kosarev	Pate signed
Serger V. Stranton	Date signed
Javesia fren	Date signed
Alexander V. Buturer	Date signed
Hans A. Enbaran	Ditte Signesi
Andrey Kluchnikov	November 23, 1276 Date seems

PATENT REEL: 040535 FRAME: 0971

RECORDED 12/06/2016