PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK YARVIS	06/06/2014
SAMUEL BENN	06/05/2014
SOETHIHA SOE	07/07/2014
MARK MCDONALD	06/05/2014
DOMINIC FULGINITI	06/27/2014

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:	14273613

CORRESPONDENCE DATA

Fax Number: (612)332-8352

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: 503-536-1400

Email: mmurray-hitchcock@cpaglobal.com **Correspondent Name:** GREEN, HOWARD & MUGHAL LLP

Address Line 1: C/O CPA GLOBAL Address Line 2: P.O. BOX 52050

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	P64399
NAME OF SUBMITTER:	MICHELLE MURRAY-HITCHCOCK
SIGNATURE:	/Michelle Murray-Hitchcock/
DATE SIGNED:	07/07/2014

Total Attachments: 5

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> PATENT REEL: 033249 FRAME: 0929

Attorney Docket No.: P63852

ASSIGNMENT

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

SANDEEP GULIANI; KIRAN PANGAL; BALAJI SRINIVASAN; CHAOHONG HU

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:

MULTISTAGE MEMORY CELL READ

(I hereby authorize and request any attorney having appropriate authority from the assignee to inse	ert
on the designated lines below, the filing date and application number of said application when know	'n.)

which was filed on_	June 4, 2014		as	
United States		Application Number 14/295,512		and
COUNTRY or Inter		- · · · · · · · · · · · · · · · · · · ·		

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

PATENT REEL: 033249 FRAME: 0930

Attorney Docket No.: P63852

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

Sander & Kuman	6/13/2014
SANDEEP GULIANI	Date signed
KIRAN PANGAL	Date signed
BALAJI SRINIVASAN	Date signed
CHAOHONG HU	Date signed

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

SANDEEP GULIANI	Date signed
<i>A</i> - ·	6/9/14
KIR'AN PANGAL	Date signed
BALAJI SRINIVASAN	Date signed
CHAOHONG HU	Date signed

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

SANDEEP GULIANI	Date signed
KIRAN PANGAL	Date signed
M.	JUN 23' 2014
BALAJI SRINIVASAN	Date signed
CHAOHONG HU	Date signed

Attorney Docket No.: P63852

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

SANDEEP GULIANI	Date signed
KIRAN PANGAL	Date signed
BALAJI SRINIVASAN	Date signed
Jughan et	06/20/2014
¹ĊĤÃOHŌNG HU ⟨/	Date signed