#### 502047821 09/05/2012

#### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# **CONVEYING PARTY DATA**

Name	Execution Date	
Jie Sun	07/13/2012	
Brian Cleereman	07/13/2012	
Minsoo Lee	07/13/2012	

### RECEIVING PARTY DATA

Name:	Intel Corporation	
Street Address:	2200 Mission College Blvd.	
City:	Santa Clara	
State/Country:	CALIFORNIA	
Postal Code:	95052	

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13534295

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	P44866
NAME OF SUBMITTER:	Bruce A. Young

**Total Attachments: 2** 

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PATENT REEL: 028896 FRAME: 0574 CH \$40 00 1353

#### ASSIGNMENT

mmmara m. n. al-	n Sun, residing at 4816 N Shirley Ave, Boise, ID 83703, US
WHEKEAS, We, Jie 3250	n Sun, residing at 4810 N Shirley Ave, Boise, 1D 83703, US
and Brian Cleereman, residing at	4427 E Tanoak Dr., Boise, ID 83716, US and Minsoo Lee.
residing at 2021 S springbrook ln.	, Boise, ID 83706, US made certain new and useful inventions
and improvements for which we	filed an application for Letters Patent of the United States on
June 27, 2012	which application was assigned U.S. patent application serial
number <u>13/534,295</u>	, and is entitled THREE DIMENSIONAL NAND FLASH
WITH SELF-ALIGNED SELECT	GATE:

AND WHEREAS, <u>Intel Corporation</u>, a corporation organized and existing under and by virtue of the laws of the State of <u>Delaware</u>, and having an office and place of business at <u>2200 Mission College Blvd.</u>, <u>Santa Clara, CA 95052</u> (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

PATENT REEL: 028896 FRAME: 0575 AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

IN TESTIMONY WHEREOF, I have	hereunto set my hand this /3	day of	July	_, 2012
•	Jie <del>Jason</del> Sun J. S			
IN TESTIMONY WHEREOF, I have	hereunto set my hand this 13	day of _	Jul7	, 2012
•	Brian Cleereman			
IN TESTIMONY WHEREOF, I have	hereunto set my hand this 3	_day of _	July	, 2012
	Minsoo Lee			

PATENT REEL: 028896 FRAME: 0576

**RECORDED: 09/05/2012**