# 504492118 08/07/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4538820

SUBMISSION TYPE:			NEW ASSIGNMENT				
NATURE OF CONVEYANCE:		ASSIGNMENT					
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CONVEYING PARTY D	41A		Nama		Everytion Data		
			Name		Execution Date		
BLAISE FANNING					02/29/2012		
					02/24/2012		
RAYMOND S. TETRICK					03/02/2012		
FRANK T. HADY					03/01/2012		
RECEIVING PARTY DA	ТА						
Name:	INTEL	INTEL CORPORATION					
Street Address:	2200 M	2200 MISSION COLLEGE BLVD					
City:	SANTA	SANTA CLARA					
State/Country:	CALIFO	ORNIA	4				
Postal Code:	95054						
PROPERTY NUMBERS	Total: 1		Number				
Property Type		1504	Number				
Application Number:		15640	0373				
CORRESPONDENCE D	ΑΤΑ						
Fax Number:							
			e-mail address first; if that is uns hat is unsuccessful, it will be sen				
Phone:			51-9442				
Email:							
Correspondent Name:							
Address Line 1:			A NW BETHANY BLVD, STE. I-2 #237				
Address Line 4:		POR	TLAND, OREGON 97229				
ATTORNEY DOCKET NUMBER:		P37102USC3					
NAME OF SUBMITTER:			ANNIE PEARSON				
SIGNATURE:		/Annie Pearson/					
DATE SIGNED:		08/07/2017					
Total Attachments: 8							
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# ASSIGNMENT

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

#### BLAISE FANNING; SHEKOUFEH QAWAMI; RAYMOND S. TETRICK; FRANK T. HADY

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, 95052 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the International application entitled:

### MULTI-LEVEL MEMORY WITH DIRECT ACCESS

(I hereby authorize and request my attorney, associated with Customer Number 45209, to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on	December 29, 2011	_as
International Application Number	PCT/US2011/067824_	and

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

and in and to said International application and all related applications (e.g. national phase applications, divisional applications, continuation applications, reaxaminations, reissues, and the like) that have been or shall be filed in the United States and/or all foreign countries on said inventions and improvements, as well as in and to all rights of priority resulting from the filing of said International application;

agree that said Assignce 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 design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, 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, in said Assignee, its successors, assigns, and legal representations for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

Page 1 of 2

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.

Blaise Fanning

<u>2-29-</u>12-(Today's Date)

Shekoufeh Qawami

(Today's Date)

Raymond S. Tetrick

(Today's Date)

Frank T. Hady

(Today's Date)

16/18

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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 design, utility, divisional, continuing, continuation-in-part, substitute, renewal, relissue, 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

Page 1 of 3

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.

**Blaise Fanning** 

(Today's Date)

14

Shekoufeh Qawami

Raymond S. Tetrick

2/24//2 (Today's Date)

(Today's Date)

Frank T. Hady

(Today's Date)

PATENT REEL: 043220 FRAME: 0047

Page 2 of 2

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

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International Application Number	PCT/US2011/067824	_and

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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 design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, 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, in said Assignee, its successors, assigns, and legal representatives; and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

Page 1 of 2

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Blaise Fanning

(Today's Date)

Shekoufeh Qawami

(Today's Date)

Raymond S.

 $\frac{3/2/2.012}{(Today's Date)}$ 

Frank T. Hady

(Today's Date)

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covenant with said Assignce, 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.

Page 2 of 2

Blaise Fanning

(Today's Date)

Shekoufeh Qawami

(Today's Date)

Raymond S. Tetrick

(Today's Datc)

Frank T. Hady (Today's Date)

PATENT REEL: 043220 FRAME: 0051

**RECORDED: 08/07/2017**