503446011 08/21/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3492635

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GUY M. THERIEN	01/06/2015
PAUL S. DIEFENBAUGH	01/12/2015
ANIL AGGARWAL	03/12/2015
ANDREW D. HENROID	01/06/2015
JEREMY J. SHRALL	01/08/2015
EFRAIM ROTEM	01/13/2015
KRISHNAKANTH V. SISTLA	08/14/2015
ELIEZER WEISSMANN	02/06/2015
MOHAN J. KUMAR	03/23/2015
SARATHY JAYAKUMAR	01/13/2015

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:	13683748

CORRESPONDENCE DATA

Fax Number:

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: 503-968-8233

Email: kcampbell@ghmip.com

Correspondent Name: GREEN, HOWARD, & MUGHAL, LLP
Address Line 1: 5 CENTERPOINTE DR. SUITE 400
Address Line 4: LAKE OSWEGO, OREGON 97035

ATTORNEY DOCKET NUMBER: 01.P51135

PATENT 503446011 REEL: 036409 FRAME: 0182

NAME OF SUBMITTER:	USMAN A. MUGHAL
SIGNATURE:	/Usman A. Mughal/
DATE SIGNED:	08/21/2015
Total Attachments: 30	
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ASSIGNMENT

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

Guy M. Therien; Paul S. Diefenbaugh; Anil Aggarwal; Andrew D. Henroid; Jeremy J. Shrall; Efraim Rotem; Krishnakanth V. Sistla; Eliezer Weissmann; Mohan Kumar; Sarathy Jayakumar

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:

COMPUTING PLATFORM INTERFACE WITH MEMORY MANAGEMENT

which was filed on 117	November 2012	as
United States COUNTRY or Internation	Application Number 13/683,748 and Office	and
which has been executed by the unde	ersigned 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 app	plications that have been or shall be
filed in the United States and all other	er countries and international filing offices on an	y of said inventions and
improvements; and in and to all orig	inal and reissued patents that have been or shall b	ne issued in the United States and
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priority resulting from the filing of s	aid applications; as used herein "Additional App	lications" includes but is not
limited to design, utility, utility mode	el, divisional, continuing, continuation-in-part, se	ibstitute, renewal, reissue, and
national phase applications on said in	nventions and improvements:	

Serial No.: 13/683,748

Attorney Docket No.: 01P51135

PATENT REEL: 036409 FRAME: 0184

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.

L. Mi Thria	1/6/15
Guy M. Therien	Date signed
Paul S. Diefenbaugh	Date signed
Anil Aggarwal	Date signed
Andrew D. Henroid	Date signed
Jeremy J. Shrall	Date signed
Efraim Rotem	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

Krishnakanth V. Sistla	Date signed
Eliezer Weissmann	Date signed
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Serial No.: 13/683,748 Attorney Docket No.: 01P51135 Page 1 of 3

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,	Guy M. Therien	Date signed
منيبيب	Paul S. Diefenbaugh	Date signed
	Anil Aggarwal	Date signed
	Andrew D. Henroid	Date signed
	Jeremy J. Shrall	Date signed
	Efraim Rotem	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

	Krishnakanth V. Sistla	Date signed
<u></u>	Eliezer Weissmann	Date signed
	Mohan J. Kumar	Date signed
·	Sarathy Jayakumar	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

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United States. COUNTRY or Internation	Application Number 13/683.748	
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The second second second	inventions and improvements;	

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Serial No.: 13/683,748 Page 1 of 3 Attentory Docket No.: 01P51135

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Guy M. Therien	Date signed
Paul S. Diefenbaugh	Date signed
Aule	3/12/15
Anii Aggarwai	Date signed
Andrew D. Henroid	Date signed
Jeremy J. Shraff	Date signed
Efrsim Rotem	Date signed

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	Krishnakanth V. Sistla	Date signed
, <u>,,</u>	Eliezer Weissmann	Date signed
,yearness	Mohan J. Kumar	Date signed
	Sarathy Jayakumar	Date signed

Serial No.: 13/683,748 Attornoy Docket No.: 01P51135

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Approximately and the second s	below, the filing date and a	A		
which w	as filed on <u>11 November</u>	2012	as	
<u>United S</u> COUN	States ITRY or International Office		13/683,748	and
which has been e	xecuted by the underxigned p	rior hereto or concurrer	ntly herewith on the date(s) in	dicated below,
and in and to said	dapplication and all Addition	al Applications, and all	other patent applications that	have been or shall be
filed in the Unite	d States and all other countrie	es and international filir	ng offices on any of said inver	ntions and
improvements; as	nd in and to all original and re	issued patents that hav	e been or shall be issued in th	e United States and
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Page 1 of 3

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

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

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Guy M. Therien	Date signed
Paul S. Diefenbaugh	Date signed
Anil Aggarwal	Date signed
Andrew D. Henroid	<u>/6//5</u> Date signed
Jeremy J. Shrall	Date signed
Efraîm Rotem	Date signed

Senal No.: 13/683,748 Attorney Docket No.: 01P51135

Kríshnakanth V. Sistla	Date signed
Eliezer Weissmann	Date signed
Mohan J. Kumar	Date signed
Sarathy Jayakumar	Date signed

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(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 on11	November 2012	as	
<u>United States</u> COUNTRY or Internation	Application Number onal Office	13/683,748	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;

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Guy M. Therien	Date signed
Paul S. Diefenbaugh	Date signed
Anil Aggarwal	Date signed
Andrew D. Henroid	Date signed
Pan IAUU	1/8/2015
Jeremy J. Shrall	Date signed
Efraim Rotem	Date signed

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Krishnakanth V. Sistla	Date signed
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United States COUNTRY or b	Application Numbe	r <u>13/683.748</u>	bns

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filled in the United States and all other countries and international filling 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 filling offices on said inventions and improvements; and in and to all rights of priority resulting from the filling 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 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 Assignce, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute

Seriel No.: 13/683,748 Automey Docket No.: 01/91135

Page Lof 3

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.

Guy M. Therien	Date signed
Paul S. Diefenbaugh	Date signed
Anii Aggarwal	Date signed
Andrew D. Henroid	Date signed
Jeremy J. Shrall	Date signed
Efraim Rotem	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

	Krishnakanth V. Sistla	Date signed
	and the same of th	_6/feb/2015
	Eliezer Weissmann	Dute signed
	Mohan J. Kumar	Date signed
•••••	Sarathy Jayakumar	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

ASSIGNMENT

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

Guy M. Therien; Paul S. Diefenbaugh; Anil Aggarwal; Andrew D. Henroid; Jeremy J. Shrall; Efraim Rotem; Krishnakanth V. Sistla; Eliezer Weissmann; Mohan Kumar; Sarathy Jayakumar

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:

COMPUTING PLATFORM INTERFACE WITH MEMORY MANAGEMENT

(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 11 November 2012 as	
United States Application Number 13/683,748 COUNTRY or International Office	and
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated bel	ow,
and in and to said application and all Additional Applications, and all other patent applications that have been filed in the United States and all other countries and international filing offices on any of said inventions and	or shall be
improvements; and in and to all original and reissued patents that have been or shall be issued in the United St	
all other countries and international filing offices on said inventions and improvements; and in and to all right priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is	
limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissur national phase applications on said inventions and improvements;	e, and
and agree that said Assignce may apply for and receive a patent or patents for said inventions and improvement	ns in its

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

Page 1 of 3

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 Assigned, 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.

Guy M. Therien	Date signed
Paul S. Diefenbaugh	Date signed
Anil Aggarwal	Date signed
Andrew D. Henroid	Date signed
Jeremy J. Shrall	Date signed
Efraim Rotem	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01PS1133

Krishnakanth V. Sistla	Date signed
Eliezer Weissmann	Date signed
hwy 4	3/23/15
Mohan J. Kuman	Date signed
Sarathy Jayakumar	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

ASSIGNMENT

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

Guy M. Therien; Paul S. Diefenbaugh; Anil Aggarwal; Andrew D. Henroid; Jeremy J. Shrall; Efraim Rotem; Krishnakanth V. Sistla; Eliezer Weissmann; Mohan Kumar; Sarathy Jayakumar

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COMPUTING PLATFORM INTERFACE WITH MEMORY MANAGEMENT

· •	est any attorney having appropriate a ling date and application number of s	•	
which was filed on _	11 November 2012	as	
<u>United States</u> COUNTRY or Inter	Application Number mational Office	13/683,748	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

Serial No.: 13/683,748 Page 1 of 3

Attorney Docket No.: 01P51135

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Guy M. Therien	Date signed
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Anil Aggarwal	Date signed
Andrew D. Henroid	Date signed
Jeremy J. Shrall	Date signed
Efraim Rotem	Date signed

Page 2 of 3

Serial No.: 13/683,748 Attorney Docket No.: 01P51135

REEL: 036409 FRAME: 0212

Krishnakanth V. Sistla	Date signed
Eliezer Weissmann	Date signed
Mohan J. Kumar	Date signed
In)	01/13/2015
√ Safathy Jayakumar	Date signed

Serial No.: 13/683,748 Attorney Docket No.: 01P51135