

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3622406

|   |  |
|---|--|
| <b>SUBMISSION TYPE:</b>   | CORRECTIVE ASSIGNMENT  |
| <b>NATURE OF CONVEYANCE:</b>  | Corrective Assignment to correct the TITLE OF APPLICATION AND NAME OF INVENTOR KYUNG-HOAE KOO previously recorded on Reel 032584 Frame 0337. Assignor(s) hereby confirms the APPLICATION TITLE IS ASSIST CIRCUIT FOR MEMORY AND NAME OF INVENTOR KYUNG-HOAE KOO. |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>  |
| JAYDEEP KULKARNI  | 03/27/2014   |
| ANUPAMA THAPLOO   | 03/31/2014   |
| IQBAL RAJWANI   | 03/31/2014   |
| KYUNG-HOAE KOO  | 03/27/2014   |
| ERIC A. KARL  | 03/27/2014   |
| MUHAMMAD KHELLAH  | 03/27/2014   |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | Intel Corporation  |
| <b>Street Address:</b>  | 2200 Mission College Boulevard   |
| <b>City:</b>  | Santa Clara  |
| <b>State/Country:</b>   | CALIFORNIA   |
| <b>Postal Code:</b>   | 95054  |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>  |
| Application Number:   | 14229767   |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (503)796-2900  |
| <i>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.</i> |  |
| <b>Phone:</b>   | (503) 222-9981   |
| <b>Email:</b>   | adonnell@schwabe.com   |
| <b>Correspondent Name:</b>  | SCHWABE, WILLIAMSON & WYATT, P.C.  |
| <b>Address Line 1:</b>  | 1211 SW FIFTH AVENUE, SUITE 1600   |
| <b>Address Line 4:</b>  | PORTLAND, OREGON 97204   |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 110350-195434 (P64565)   |
| <b>NAME OF SUBMITTER:</b>   | ASHLEY A. DONNELL  |
| <b>SIGNATURE:</b>   | /Ashley A. Donnell/  |

|   |            |
|---|------------|
| <b>DATE SIGNED:</b>   | 11/18/2015 |
| <b>Total Attachments: 12</b><br>source=P64565_Corrective_Assign#page1.tif<br>source=P64565_Corrective_Assign#page2.tif<br>source=P64565_Corrective_Assign#page3.tif<br>source=P64565_Corrective_Assign#page4.tif<br>source=P64565_Corrective_Assign#page5.tif<br>source=P64565_Corrective_Assign#page6.tif<br>source=P64565_Corrective_Assign#page7.tif<br>source=P64565_Corrective_Assign#page8.tif<br>source=P64565_Corrective_Assign#page9.tif<br>source=P64565_Corrective_Assign#page10.tif<br>source=P64565_Corrective_Assign#page11.tif<br>source=P64565_Corrective_Assign#page12.tif |            |

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT2797163

|   |                                |
|---|--------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| JAYDEEP P KULKARNI  | 03/27/2014                     |
| ANUPAMA THAPLOO   | 03/31/2014                     |
| IQBAL RAJWANI   | 03/31/2014                     |
| KYUNG-KOAE KOO  | 03/27/2014                     |
| ERIC A KARL   | 03/27/2014                     |
| MUHAMMAD KHELLAH  | 03/27/2014                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>Name:</b>  | INTEL CORPORATION              |
| <b>Street Address:</b>  | 2200 MISSION COLLEGE BOULEVARD |
| <b>City:</b>  | SANTA CLARA                    |
| <b>State/Country:</b>   | CALIFORNIA                     |
| <b>Postal Code:</b>   | 95054                          |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| Application Number:   | 14229767                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  | (206)292-0460                  |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> |                                |
| <b>Phone:</b>   | 2066221711                     |
| <b>Email:</b>   | mchristopherson@schwabe.com    |
| <b>Correspondent Name:</b>  | MELEE CHRISTOPHERSON           |
| <b>Address Line 1:</b>  | 1420 FIFTH AVENUE              |
| <b>Address Line 2:</b>  | SUITE 3400                     |
| <b>Address Line 4:</b>  | SEATTLE, WASHINGTON 98101      |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 110350-195434 (P64565)         |
| <b>NAME OF SUBMITTER:</b>   | MELEE CHRISTOPHERSON           |
| <b>SIGNATURE:</b>   | /Melee Christopherson/         |
| <b>DATE SIGNED:</b>   | 04/02/2014                     |
| <b>Total Attachments: 5</b>   |                                |

PATENT

REEL: 037146 FRAME: 0038

## ASSIGNMENT

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

**Jaydeep Kulkarni, Anupama Thaploo, Iqbal Rajwani, Kyung-Koae Koo, Eric Karl  
Muhammad Khellah**

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:

ASSIST CIRCUIT FOR MEMORY

JPK, 11/03/2015

MK, 11/03/2015

~~UNIFIED CIRCUIT ASSIST FOR REGISTER FILE (RF) AND RO-VMIN REDUCTION,  
LEAKAGE REDUCTION, AGEING TOLERANCE AND ARRAY COMPACTION~~

(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 March 28, 2014 as

United States Application Number 14/229,767 and  
COUNTRY or International Office

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,

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**Jaydeep Kulkarni, Anupama Thaploo, Iqbal Rajwani, Kyung-Koo Koo, Eric Karl  
Muhammad Khellah**

KHK 11/21/2015

Hoe

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LEAKAGE REDUCTION, AGEING TOLERANCE AND ARRAY COMPACTION**

KHK 11/21/2015

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United States Application Number 14/228,767 and  
COUNTRY or International Office

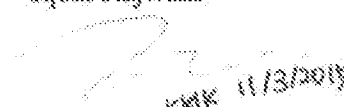
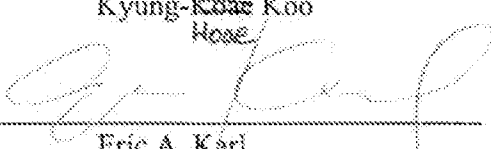
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assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining 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.

|  |                                   |
|--|-----------------------------------|
| _____<br>Jaydeep P. Kulkarni   | _____<br>Date signed              |
| _____<br>Anupama Thaploo   | _____<br>Date signed              |
| _____<br>Iqbal Rajwani   | _____<br>Date signed              |
| _____<br><br>Kyung-Koo Koo<br>Hose | _____<br>3/29/2014<br>Date signed |
| _____<br><br>Eric A. Karl         | _____<br>3/27/2014<br>Date signed |
| _____<br>Muhammad Khellah  | _____<br>Date signed              |



## ASSIGNMENT

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which was filed on March 28, 2014, ss

United States Application Number 14/229,767 and  
COUNTRY or International Office

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

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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.

\_\_\_\_\_  
Jaydeep P. Kulkarni

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Anupama Thaploo

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Iqbal Rajwani

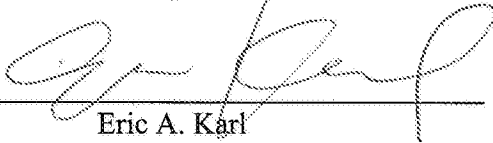
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Date signed



\_\_\_\_\_  
3/27/2014

\_\_\_\_\_  
Kyung-Koae Koo

\_\_\_\_\_  
Date signed

  
Eric A. Karl

\_\_\_\_\_  
3/27/2014


\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Muhammad Khellah

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\_\_\_\_\_  
Jaydeep P. Kulkarni

03/27/2014  
\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Anupama Thaploo

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Iqbal Rajwani

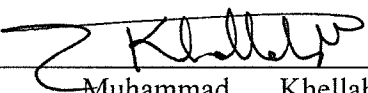
\_\_\_\_\_  
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\_\_\_\_\_  
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\_\_\_\_\_  
Eric A. Karl

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\_\_\_\_\_  
Date signed

\_\_\_\_\_  
  
Ajit Rajwani

\_\_\_\_\_  
03/31/14  
Date signed

\_\_\_\_\_  
Kyung-Koae Koo

\_\_\_\_\_  
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\_\_\_\_\_  
Jaydeep P. Kulkarni

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
*Anupama*  
Anupama Thaploo

\_\_\_\_\_  
*03/31/2014*  
Date signed

\_\_\_\_\_  
Iqbal Rajwani

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
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