

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3099052

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the SPELLING OF INVENTOR #2, JAMES P. GILCHRIST'S LAST NAME previously recorded on Reel 031679 Frame 0984. Assignor(s) hereby confirms the LAST NAME OF INVENTOR #2 IS SPELLED CORRECTLY.

**CONVEYING PARTY DATA**

Name	Execution Date
ELI M. DOW	11/29/2012
JAMES P. GILCHRIST	10/30/2014
STEVEN K. SCHMIDT	11/29/2012
JESSIE YU	11/29/2012

**RECEIVING PARTY DATA**

<b>Name:</b>	INTERNATIONAL BUSINESS MACHINES CORPORATION
<b>Street Address:</b>	NEW ORCHARD ROAD
<b>City:</b>	ARMONK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10504

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	13690162

**CORRESPONDENCE DATA**

**Fax Number:** (860)286-0115  
*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:** 404-607-9991  
**Email:** usptopatentmail@cantorcolburn.com  
**Correspondent Name:** CANTOR COLBURN LLP  
**Address Line 1:** 20 CHURCH STREET  
**Address Line 2:** 22ND FLOOR  
**Address Line 4:** HARTFORD, CONNECTICUT 06103

<b>ATTORNEY DOCKET NUMBER:</b>	POU920120218US1
<b>NAME OF SUBMITTER:</b>	CYNTHIA L. DAVIS
<b>SIGNATURE:</b>	/cld/
<b>DATE SIGNED:</b>	11/07/2014
This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT

**Total Attachments: 13**

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**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 3, 2012

PTAS

CANTOR COLBURN LLP-IBM POUGHKEEPSIE  
20 CHURCH STREET  
22ND FLOOR  
HARTFORD, CT 06103

**502145960**

UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 11/30/2012

REEL/FRAME: 029381/0187  
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: POU920120218US1

ASSIGNOR:

DOW, ELI M.

DOC DATE: 11/29/2012

ASSIGNOR:

GILCHREST, JAMES P.

DOC DATE: 11/29/2012

ASSIGNOR:

SCHMIDT, STEVEN K.

DOC DATE: 11/29/2012

ASSIGNOR:

YU, JESSIE

DOC DATE: 11/29/2012

ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES  
CORPORATION  
NEW ORCHARD ROAD  
ARMONK, NEW YORK 10504

APPLICATION NUMBER: 13690162

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: HARDWARE CONTIGUOUS MEMORY REGION TRACKING

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
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Fax Number:	8602860115										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	860-286-2929										
Email:	usptopatentmail@cantorcolburn.com										
Correspondent Name:	CANTOR COLBURN LLP-IBM POUGHKEEPSIE										
Address Line 1:	20 Church Street										
Address Line 2:	22nd Floor										
Address Line 4:	Hartford, CONNECTICUT 06103										
ATTORNEY DOCKET NUMBER:	POU920120218US1										
NAME OF SUBMITTER:	Mark E. Wilinski										
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CH \$40.00 13690162



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**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

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<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	8602860115										
<b>Phone:</b>	860-286-2929										
<b>Email:</b>	usptopatentmail@cantorcolburn.com										

**PATENT****REEL: 034192 FRAME: 0434**

<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Correspondent Name:</b>	CANTOR COLBURN LLP-IBM POUGHKEEPSIE
<b>Address Line 1:</b>	20 Church Street
<b>Address Line 2:</b>	22nd Floor
<b>Address Line 4:</b>	Hartford, CONNECTICUT 06103
<b>ATTORNEY DOCKET NUMBER:</b>	POU920120218US1
<b>NAME OF SUBMITTER:</b>	Mark E. Wilinski
<b>Signature:</b>	/Mark E. Wilinski/
<b>Date:</b>	11/30/2012
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 8</b> source=6I25933#page1.tif source=6I25933#page2.tif source=6I25933#page3.tif source=6I25933#page4.tif source=6I25933#page5.tif source=6I25933#page6.tif source=6I25933#page7.tif source=6I25933#page8.tif	
<b>RECEIPT INFORMATION</b>	
<b>EPAS ID:</b>	PAT2185137
<b>Receipt Date:</b>	11/30/2012
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**PATENT**

IBM DOCKET NUMBER: POU920120218US1

**DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT****TITLE OF INVENTION: HARDWARE CONTIGUOUS MEMORY REGION TRACKING**

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

 United States application or PCT international application number 13/690,162  
filed on November 30, 2012

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this



IBM DOCKET NUMBER: POU920120218US1

Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: ELI M. DOW

Signature:  Date: 11/29/2012

(2) Legal Name of Inventor: JAMES P. GILCHREST

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: STEVEN K. SCHMIDT

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: JESSIE YU

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also

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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: **ELI M. DOW**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(2) Legal Name of Inventor: **JAMES P. GILCHRIST**

Signature: James P. Gilchrist Date: 10/30/2014

(3) Legal Name of Inventor: **STEVEN K. SCHMIDT**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: **JESSIE YU**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT**

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(1) Legal Name of Inventor: **ELI M. DOW**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Signature:  \_\_\_\_\_ Date: 11/29/2012

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(1) Legal Name of Inventor: ELI M. DOW

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

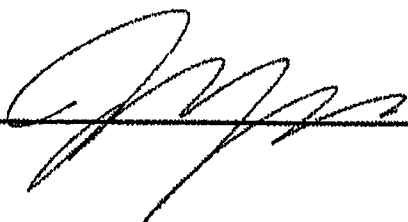
(2) Legal Name of Inventor: JAMES P. GILCHREST

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: STEVEN K. SCHMIDT

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: JESSIE YU

Signature:  \_\_\_\_\_ Date: 11/29/2012