

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2646142

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>MALCOLM S. ALLEN-WARE</td> <td>12/11/2013</td> </tr> <tr> <td>HEATHER L. HANSON</td> <td>12/10/2013</td> </tr> <tr> <td>DAVID J. PALFRAMAN</td> <td>12/10/2013</td> </tr> <tr> <td>SRINIVASAN RAMANI</td> <td>12/10/2013</td> </tr> <tr> <td>KEN V. VU</td> <td>12/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	MALCOLM S. ALLEN-WARE	12/11/2013	HEATHER L. HANSON	12/10/2013	DAVID J. PALFRAMAN	12/10/2013	SRINIVASAN RAMANI	12/10/2013	KEN V. VU	12/10/2013
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KEN V. VU	12/10/2013												
RECEIVING PARTY DATA													
Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION												
Street Address:	NEW ORCHARD ROAD												
City:	ARMONK												
State/Country:	NEW YORK												
Postal Code:	10504												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14104154</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14104154								
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Application Number:	14104154												
CORRESPONDENCE DATA													
Fax Number:	(972)733-1575												
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ATTORNEY DOCKET NUMBER:	AUS920130371US1												
NAME OF SUBMITTER:	STEPHEN J. WALDER, JR.												

CH \$40.00 14104154

Signature:	/Stephen J. Walder, Jr./
Date:	12/12/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 10</b> source=AUS920130371US1 Assignment-Declaration#page1.tif source=AUS920130371US1 Assignment-Declaration#page2.tif source=AUS920130371US1 Assignment-Declaration#page3.tif source=AUS920130371US1 Assignment-Declaration#page4.tif source=AUS920130371US1 Assignment-Declaration#page5.tif source=AUS920130371US1 Assignment-Declaration#page6.tif source=AUS920130371US1 Assignment-Declaration#page7.tif source=AUS920130371US1 Assignment-Declaration#page8.tif source=AUS920130371US1 Assignment-Declaration#page9.tif source=AUS920130371US1 Assignment-Declaration#page10.tif	

**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: **ENERGY EFFICIENT OPTIMIZATION IN MULTICORE PROCESSORS UNDER QUALITY OF SERVICE (QoS)/PERFORMANCE CONSTRAINTS**

As a below named inventor, I hereby declare that:

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

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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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, each undersigned inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

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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: **Malcolm S. Allen-Ware**

Signature: Malcolm S. Allen-Ware Date: 12/11/13

(2) Legal Name of Inventor: **Heather L. Hanson**

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

(3) Legal Name of Inventor: **David J. Palframan**

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

(4) Legal Name of Inventor: **Srinivasan Ramani**

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

(5) Legal Name of Inventor: **Ken V. Vu**

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

(2) Legal Name of Inventor: **Heather L. Hanson**

Signature: Heather L. Hanson Date: December 10, 2013

(3) Legal Name of Inventor: **David J. Palframan**

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

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