

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2777952

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YANG SONG	03/14/2014
RAMANI R. ROUSTRAY	03/13/2014
DAVID R. BLEA	03/14/2014
KAVITA CHAVDA	03/20/2014
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	
Property Type	Number
Application Number:	14220713
CORRESPONDENCE DATA	
Fax Number:	(203)255-6570
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	2032556560
Email:	car@rml-law.com
Correspondent Name:	MICHAEL J. COOPER
Address Line 1:	1175 POST ROAD EAST, SECOND FLOOR
Address Line 2:	RYAN, MASON & LEWIS, LLP
Address Line 4:	WESTPORT, CONNECTICUT 06880
ATTORNEY DOCKET NUMBER:	ARC920130150US1
NAME OF SUBMITTER:	MICHAEL J. COOPER
SIGNATURE:	/Michael J. Cooper/
DATE SIGNED:	03/20/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 5	
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source=ARC920130150US1_FiledAssignment_03202014#page2.tif

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**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
**Yang Song, Ramani R. Routray, David R. Blea
and Kavita Chavda**
Additional name(s) of conveying party(ies) attached?
 Yes No

2. Name and address of receiving party(ies)
Name: International Business Machines Corporation
Internal Address:
Street Address: New Orchard Road
City: Armonk State: NY ZIP: 10504
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: **March 14, 2014, March 13, 2014,
March 14, 2014, March 20, 2014**

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s) **14/220,713 Filed March 20, 2014** B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom
correspondence concerning document should be
mailed:
Name: Michael J. Cooper
Internal Address: Ryan, Mason & Lewis, LLP
Street Address: 1175 Post Road East, Second Floor
City: Westport State: CT ZIP: 06880

6. Total number of applications and patents
involved: 1
7. Total Fee (37 CFR 3.41)..... \$ 40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number **09-0441**

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael J. Cooper
Reg. No. **57,749**


Signature

March 20, 2014
Date

Total number of pages including cover sheet, attachments, and document: 5

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Washington, DC 20231

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ARC920130150US1

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: **NETWORKING-ASSISTED INPUT/OUTPUT ORDER PRESERVATION FOR DATA REPLICATION**

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 _____ filed on _____.

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 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, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and I desire to grant to IBM, 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 ("ASSIGNOR") hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to IBM (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 IBM, its successors, legal representatives, and assigns, my 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 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to IBM 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 IBM, 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: **Yang Song**

Signature:  Date: 3-14-2014

(2) Legal Name of Inventor: **Ramani R. Routray**

Signature:  Date: 13th March 2014

(3) Legal Name of Inventor: **David R. Blea**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Kavita Chavda**

Signature: _____ Date: _____

IBM DOCKET NUMBER: ARC920130150US1

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

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(1) Legal Name of Inventor: **Yang Song**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Ramani R. Routray**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **David R. Blea**

Signature:  _____ Date: 3/14/14

(4) Legal Name of Inventor: **Kavita Chavda**

Signature: _____ Date: _____

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to IBM 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 IBM, 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: **Yang Song**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Ramani R. Routray**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **David R. Blea**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Kavita Chavda**

Signature: *Kavita Chavda* Date: 3/20/2014