### 502128861 11/14/2012

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date	
Sugata Ghosal	11/14/2012	
Raghavendra Singh	11/14/2012	

### RECEIVING PARTY DATA

Name:	International Business Machines Corporation
Street Address:	Orchard Road
City:	Armonk
State/Country:	NEW YORK
Postal Code:	10504

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13676604

### CORRESPONDENCE DATA

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 1: 1300 Post Road, Suite 205 Address Line 2: Ryan, Mason & Lewis, LLP Address Line 4: Fairfield, CONNECTICUT 06824

ATTORNEY DOCKET NUMBER:	IN920120170US1	
NAME OF SUBMITTER:	Michael J. Cooper	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

### Total Attachments: 4

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> **PATENT** REEL: 029297 FRAME: 0916

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FORM PTO-1595

# RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

(Rev.6-93)	PATENTS ONLY	Patent and Trademark Office
To the Honorable Commissioner of Pate	ents and Trademarks: Please record the attached origi	nal documents or copy thereof.
1. Name of conveying party(ies):  Sugata Ghosal and Raghavendra Singh Additional name(s) of conveying party(ies):  Yes X No	1	ress of receiving party(ies) nal Business Machines Corporation
3. Nature of conveyance:  X Assignment _ Merger  Security Agreement _ Change of Nan  Other  Execution Date: November 14, 2012, November 14, 2012	City: Armonk	ew Orchard Road  State: NY ZIP: 10504  address(es) attached? _ Yes X No
4. Application number(s) or patent numb If this document is being filed together A. Patent Application No.(s) 13/676,04 Fi Additional numbers attached? _ Ye	er(s): with a new application, the exec	
5. Name and address of party to whom correspondence concerning document sho mailed: Name: Michael J. Cooper Internal Address: Ryan, Mason & Lewis, Street Address: 1300 Post Road, Suite 205 City: Fairfield State: CT ZIP: 06824	7. Total Fee (37 C  Enclosed	of applications and patents  FR 3.41) \$ 40.00  to be charged to deposit account t number 09-0441
9. Statement and signature. To the best of my knowledge and belief, the true copy of the original document.	e foregoing information is true an	,
Michael J. Cooper Reg. No. 57,749  Total number of p	Signature pages including cover sheet, attachments, and document	November 14, 2012  Date
Do not detach this portion  Mail documents to be recorded with required cover sheet information to  Public burden reporting for this sample cover sheet is estimated to averdata needed, and completing and reviewing the sample cover sheet. Sen Systems, PK2-1000C, Washington, DC, 20231, and to the Office of Man	Commissioner of Patents and Trademarks Box Assignments Washington, DC 20231 age about 30 minutes per document to be recorded, incid comments regarding this burden estimate to the U.S.	Patent and Trademark Office, Office of Information

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PATENT REEL: 029297 FRAME: 0917

IBM DOCKET NUMBER: IN920120170US1

# 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: TRANSLATION DECOMPOSITION AND EXECUTION

As a below named 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
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, the undersigned inventor(s) has/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 each undersigned inventor desires to grant to IBM, the 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, 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: Su	gata Ghosal			
Signature: Signature:	ghords	· 1944	Date: Nov	14. 2017
· · · · · · · · · · · · · · · · · · ·				e es des
(2) Legal Name of Inventor: Ra	ghavendra Singh			
Signature:			Date:	

# IBM DOCKET NUMBER: IN920120170US1

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

**RECORDED: 11/14/2012** 

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: Sugata Chosal

Signature:

(2) Legal Name of Inventor: Raghavendra Singh

Signature: R. Lugh

Date: 14 Nov 2012.

PATENT REEL: 029297 FRAME: 0920