

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3741081

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the ASSIGNOR'S DOC DATE previously recorded on Reel 037025 Frame 0525. Assignor(s) hereby confirms the ASSIGNMENT. |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ALBERTO GIAMMARIA | 11/12/2015 |
| SHANTANU GODBOLE | 11/10/2015 |
| KARTHIKEYAN PONNALAGU | 11/12/2015 |
| KARTHIK SANKARANAYANAN | 11/10/2015 |
| 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: | 14939318 |
| 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 using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 203-255-6560 |
| Email: | car@rml-law.com |
| Correspondent Name: | MICHAEL J. COOPER |
| Address Line 1: | 1175 POST ROAD EAST |
| Address Line 2: | RYAN, MASON & LEWIS, LLP |
| Address Line 4: | WESTPORT, CONNECTICUT 06880 |
| ATTORNEY DOCKET NUMBER: | IN920150174US1 |
| NAME OF SUBMITTER: | MICHAEL J. COOPER |
| SIGNATURE: | /Michael J. Cooper/ |
| DATE SIGNED: | 02/16/2016 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 12

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RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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

1. Name of conveying party(ies):

Alberto Giammaria, Shantanu Godbole,
Karthikeyan Ponnalagu, and Karthik
Sankaranarayanan

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: November 12, 2015, November 10,
2015, ~~November 12, 2015~~, November 10, 2015

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) 14/939,318 Filed November 12, 2015

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

November 12, 2015

Date

Total number of pages including cover sheet, attachments, and document: 6

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Washington, DC 20231

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IN920150174US1

PATENT

REEL: 037835 FRAME: 0859

**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: **REPEAT EXECUTION OF ROOT CAUSE ANALYSIS LOGIC
THROUGH RUN-TIME DISCOVERED TOPOLOGY PATTERN MAPS**

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: **Alberto Giammaria**

Signature: Alberto Giammaria Date: 11/12/2015

(2) Legal Name of Inventor: **Shantanu Godbole**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Karthikeyan Ponnalagu**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Karthik Sankaranarayanan**

Signature: _____ Date: _____

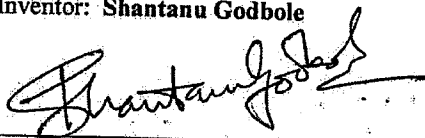
I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to IBM and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and 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: **Alberto Giammaria**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Shantanu Godbole**

Signature:  Date: 10 Nov. 2015

(3) Legal Name of Inventor: **Karthikeyan Ponnalagu**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Karthik Sankaranarayanan**

Signature: _____ Date: _____

IBM DOCKET NUMBER: IN920150174US1

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: **Alberto Giammaria**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Shantanu Godbole**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Karthikeyan Ponnalagu**

Signature: P. Karthikeyan Date: 12/11/2015

(4) Legal Name of Inventor: **Karthik Sankaranarayanan**

Signature: _____ Date: _____

IBM DOCKET NUMBER: IN920150174US1

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: **Alberto Giammaria**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Shantanu Godbole**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Karthikeyan Ponnalagu**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Karthik Sankaranarayanan**

Signature:  Date: 10/November/2015