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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7203828

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|------------------------------|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the LAST NAME OF THE FIRST LISTED INVENTOR - SHOULD BE AJAY ASHOK DESHPANDE AND EXECUTION DATE TO BE 3/02/2022 previously recorded on Reel 051830 Frame 0070. Assignor(s) hereby confirms the CORRECTIVE ASSIGNMENT. |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------------|----------------|
| AJAY ASHOK DESHPANDE | 03/02/2022 |
| ALI KOC | 01/15/2020 |
| BRIAN LEO QUANZ | 01/13/2020 |
| JAE-EUN PARK | 01/13/2020 |
| YADA ZHU | 02/12/2020 |
| YINGJIE LI | 01/14/2020 |
| CHRISTOPHER SCOTT MILITE | 01/31/2020 |
| XUAN LIU | 01/14/2020 |
| CHANDRASEKHAR NARAYANASWAMI | 01/13/2020 |

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: | 16740214 |

CORRESPONDENCE DATA

Fax Number: (713)623-4846

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: 713-623-4844

Email: lrusso@pattersonsheridan.com, psdocketing@pattersonsheridan.com

Correspondent Name: PATTERSON + SHERIDAN, LLP - IBM

Address Line 1: 24 GREENWAY PLAZA

Address Line 2: SUITE 1600

PATENT

| | |
|---|--|
| Address Line 4: | HOUSTON, TEXAS 77046 |
| ATTORNEY DOCKET NUMBER: | P201808384US01 (109461) |
| NAME OF SUBMITTER: | LAURA RUSSO |
| SIGNATURE: | /Laura Russo/ |
| DATE SIGNED: | 03/02/2022 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| Total Attachments: 12 source=P201808384US01_CorrectedAssignment_3-02-22#page1.tif source=P201808384US01_CorrectedAssignment_3-02-22#page2.tif source=P201808384US01_CorrectedAssignment_3-02-22#page3.tif source=P201808384US01_CorrectedAssignment_3-02-22#page4.tif source=P201808384US01_CorrectedAssignment_3-02-22#page5.tif source=P201808384US01_CorrectedAssignment_3-02-22#page6.tif source=P201808384US01_CorrectedAssignment_3-02-22#page7.tif source=P201808384US01_CorrectedAssignment_3-02-22#page8.tif source=P201808384US01_CorrectedAssignment_3-02-22#page9.tif source=P201808384US01_CorrectedAssignment_3-02-22#page10.tif source=P201808384US01_CorrectedAssignment_3-02-22#page11.tif source=P201808384US01_CorrectedAssignment_3-02-22#page12.tif | |

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5966251

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|---|---|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| AJAY ASHOK DESHAPANDE | 01/27/2020 |
| ALI KOC | 01/15/2020 |
| BRIAN LEO QUANZ | 01/13/2020 |
| JAE-EUN PARK | 01/13/2020 |
| YADA ZHU | 02/12/2020 |
| YINGJIE LI | 01/14/2020 |
| CHRISTOPHER SCOTT MILITE | 01/31/2020 |
| XUAN LIU | 01/14/2020 |
| CHANDRASEKHAR NARAYANASWAMI | 01/13/2020 |
| 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: | 16740214 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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: | 713-623-4844 |
| Email: | PSdocketing@pattersonsheridan.com,jweaver@pattersonsheridan.com |
| Correspondent Name: | PATTERSON + SHERIDAN, LLP - IBM YORKTOWN |
| Address Line 1: | 24 GREENWAY PLAZA, SUITE 1600 |
| Address Line 4: | HOUSTON, TEXAS 77046 |
| ATTORNEY DOCKET NUMBER: | P201808384US01 (109461) |
| NAME OF SUBMITTER: | JENNIFER WEAVER |

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: **SIMULATING A RETURN NETWORK**

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 16/740,214
filed on 01-10-2020

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 C.F.R. § 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;

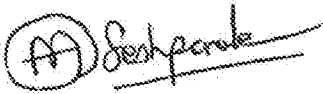
Whereas, International Business Machines Corporation (herein referred to as the “ASSIGNEE”), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and 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 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: **AJAY ASHOK DESHPANDE**

Signature:  Date: March 2, 2022

(2) Legal Name of Inventor: **ALI KOC**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **BRIAN LEO QUANZ**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **JAE-EUN PARK**

Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: **YADA ZHU**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **YINGJIE LI**

Signature: _____ Date: _____

(7) Legal Name of Inventor: **CHRISTOPHER SCOTT MILITE**

Signature: _____ Date: _____

(8) Legal Name of Inventor: **XUAN LIU**

Signature: _____ Date: _____

(9) Legal Name of Inventor: **CHANDRASEKHAR NARAYANASWAMI**

Signature: _____ Date: _____

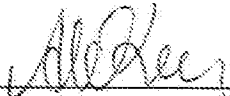
I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed,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

Signature: _____ Date: _____

(2) Legal Name of Inventor: **ALIKOC**

Signature:  Date: 01/15/2020

(3) Legal Name of Inventor: **BRIAN LEO QUANZ**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **JAE-EUN PARK**

Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

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 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: **AJAY ASHOK DESHAPANDE**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **ALI KOC**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **BRIAN LEO QUANZ**

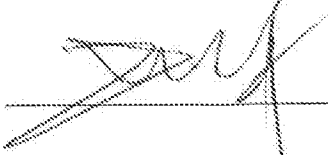
Signature: Brian Leo Quanz Date: January 13, 2020

(4) Legal Name of Inventor: **JAE-EUN PARK**

Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: **YADA ZHU**

Signature:  _____

Date: 2/12/2020

(6) Legal Name of Inventor: **YINGJIE LI**

Signature: _____

Date: _____

(7) Legal Name of Inventor: **CHRISTOPHER SCOTT MILITE**

Signature: _____

Date: _____

(8) Legal Name of Inventor: **XUAN LIU**

Signature: _____

Date: _____

(9) Legal Name of Inventor: **CHANDRASEKHAR NARAYANASWAMI**

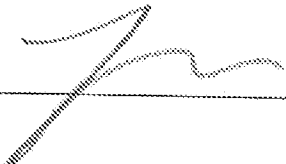
Signature: _____

Date: _____

(5) Legal Name of Inventor: YADA ZHU

Signature: _____ Date: _____

(6) Legal Name of Inventor: YINGJIE LI

Signature:  _____ Date: 1/14/2020

(7) Legal Name of Inventor: CHRISTOPHER SCOTT MILITE

Signature: _____ Date: _____

(8) Legal Name of Inventor: XUAN LIU

Signature: _____ Date: _____

(9) Legal Name of Inventor: CHANDRASEKHAR NARAYANASWAMI

Signature: _____ Date: _____

(5) Legal Name of Inventor: **YADA ZHU**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **YINGJIE LI**

Signature: _____ Date: _____

(7) Legal Name of Inventor: **CHRISTOPHER SCOTT MILITE**

Signature: *Christopher Scott Milite* Date: 01/31/2020

(8) Legal Name of Inventor: **XUAN LIU**

Signature: _____ Date: _____

(9) Legal Name of Inventor: **CHANDRASEKHAR NARAYANASWAMI**

Signature: _____ Date: _____

(5) Legal Name of Inventor: **YADA ZHU**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **YINGJIE LI**

Signature: _____ Date: _____

(7) Legal Name of Inventor: **CHRISTOPHER SCOTT MILITE**

Signature: _____ Date: _____

(8) Legal Name of Inventor: **XUAN LIU**

Signature: _____ *Xuan Liu* _____ Date: 1/14/2020

(9) Legal Name of Inventor: **CHANDRASEKHAR NARAYANASWAMI**

Signature: _____ Date: _____

(5) Legal Name of Inventor: **YADA ZHU**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **YINGJIE LI**

Signature: _____ Date: _____

(7) Legal Name of Inventor: **CHRISTOPHER SCOTT MILITE**

Signature: _____ Date: _____

(8) Legal Name of Inventor: **XUAN LIU**

Signature: _____ Date: _____

(9) Legal Name of Inventor: **CHANDRASEKHAR NARAYANASWAMI**

Signature: *N. Chandrasekhar* Date: 01/13/2020