

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3812253

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AJAY A. DESHPANDE	03/30/2016
SAURABH GUPTA	03/29/2016
ARUN HAMPAPUR	03/31/2016
ALAN J. KING	03/31/2016
ALI KOC	03/31/2016
YINGJIE LI	03/29/2016
XUAN LIU	03/31/2016
CHRISTOPHER S. MILITE	03/31/2016
BRIAN L. QUANZ	03/30/2016
CHEK KEONG TAN	03/30/2016
DAHAI XING	03/29/2016
XIAO BO ZHENG	03/30/2016

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:	15088686

CORRESPONDENCE DATA

Fax Number: (516)742-4366

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: 516-742-4343

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Correspondent Name: SCULLY, SCOTT, MURPHY & PRESSER, P.C.

Address Line 1: 400 GARDEN CITY PLAZA

Address Line 2: SUITE 300

PATENT

Address Line 4:	GARDEN CITY, NEW YORK 11530
ATTORNEY DOCKET NUMBER:	YOR920160390US1 (33322)
NAME OF SUBMITTER:	PAUL J. ESATTO, JR.
SIGNATURE:	/Paul J. Esatto, Jr./
DATE SIGNED:	04/01/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 31

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DECLARATION (37 C.F.R. § 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. § 1.76) AND ASSIGNMENT

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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;

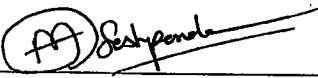
Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide 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.

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(1) Legal Name of Inventor: **AJAY A. DESHPANDE**

Signature:  Date: 3/30/2016

(2) Legal Name of Inventor: **SAURABH GUPTA**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **ARUN HAMPAPUR**

Signature: _____ Date: _____

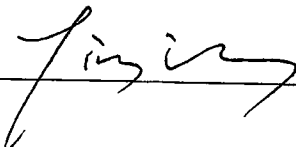
(4) Legal Name of Inventor: **ALAN J. KING**

Signature: _____ Date: _____

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

Signature: _____ Date: _____

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

Signature:  Date: 3/29/16

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

Signature: _____ Date: _____

(8) Legal Name of Inventor: **CHRISTOPHER S. MILITE**

Signature: _____ Date: _____

(9) Legal Name of Inventor: **BRIAN L. QUANZ**

Signature: _____ Date: _____

(10) Legal Name of Inventor: **CHECK KEONG TAN**

Signature: _____ Date: _____

(11) Legal Name of Inventor: **DAHAI XING**

Signature: _____ Date: _____

(12) Legal Name of Inventor: **XIAO BO ZHENG**

Signature: _____ Date: _____

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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.

IBM DOCKET NUMBER: YOR920160390US1

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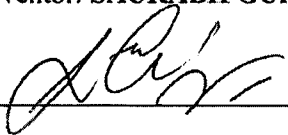
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(1) Legal Name of Inventor: **AJAY A. DESHPANDE**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **SAURABH GUPTA**

Signature:  _____ Date: 03/29/2016

(3) Legal Name of Inventor: **ARUN HAMPAPUR**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **ALAN J. KING**

Signature: _____ Date: _____

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

Signature: _____ Date: _____

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

Signature: _____ Date: _____

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

Signature: _____ Date: _____

(8) Legal Name of Inventor: **CHRISTOPHER S. MILITE**

Signature: _____ Date: _____

(9) Legal Name of Inventor: **BRIAN L. QUANZ**

Signature: _____ Date: _____

(10) Legal Name of Inventor: **CHECK KEONG TAN**

Signature: _____ Date: _____

(11) Legal Name of Inventor: **DAHAI XING**

Signature:  _____ Date: 03/29/2016

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Signature: Alan J. King Date: March 31, 2016

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Signature: _____ Date: _____

(8) Legal Name of Inventor: **CHRISTOPHER S. MILITE**

Signature: Christopher Milite Date: 3/31/2016

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Signature: Brian Quanz Date: 3/30/2016

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(11) Legal Name of Inventor: DAHAI XING

Signature: _____ Date: _____

(12) Legal Name of Inventor: XIAO BO ZHENG

Signature: _____ Date: _____

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: A SYSTEM AND METHOD TO INCORPORATE NODE FULFILLMENT CAPACITY AND NETWORK AVERAGE CAPACITY UTILIZATION IN BALANCING FULFILLMENT LOAD ACROSS RETAIL SUPPLY NETWORKS

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 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.

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(1) Legal Name of Inventor: **AJAY A. DESHPANDE**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **SAURABH GUPTA**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **ARUN HAMPAPUR**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **ALAN J. KING**

Signature: _____ Date: _____

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

Signature: _____ Date: _____

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

Signature: _____ Date: _____

(7) Legal Name of Inventor: XUAN LIU

Signature: _____ Date: _____

(8) Legal Name of Inventor: CHRISTOPHER S. MILITE

Signature: _____ Date: _____

(9) Legal Name of Inventor: BRIAN L. QUANZ

Signature: _____ Date: _____

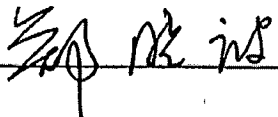
(10) Legal Name of Inventor: CHECK KEONG TAN

Signature: _____ Date: _____

(11) Legal Name of Inventor: DAIHAI XING

Signature: _____ Date: _____

(12) Legal Name of Inventor: XIAO BO ZHENG

Signature:  _____ Date: 2016.3.30

DECLARATION (37 C.F.R. § 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. § 1.76) AND ASSIGNMENT

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(1) Legal Name of Inventor: **AJAY A. DESHPANDE**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **SAURABH GUPTA**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **ARUN HAMPAPUR**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **ALAN J. KING**

Signature: _____ Date: _____

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

Signature: _____ Date: _____

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

Signature: _____ Date: _____

(7) Legal Name of Inventor: XUAN LIU

Signature: _____ Date: _____

(8) Legal Name of Inventor: CHRISTOPHER S. MILITE

Signature: _____ Date: _____

(9) Legal Name of Inventor: BRIAN L. QUANZ

Signature: _____ Date: _____

(10) Legal Name of Inventor: CHEK KEONG TAN

Signature: *Chek Keong Tan* _____ Date: 03/30/16 _____

(11) Legal Name of Inventor: DAHAI XING

Signature: _____ Date: _____

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Signature: _____ Date: _____

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Signature: _____ Date: _____

(2) Legal Name of Inventor: **SAURABH GUPTA**

Signature: _____ Date: _____

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Signature:  _____ Date: 03/31/2016

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(8) Legal Name of Inventor: **CHRISTOPHER S. MILITE**

Signature: _____ Date: _____

(9) Legal Name of Inventor: **BRIAN L. QUANZ**

Signature: _____ Date: _____

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Signature: _____ Date: _____

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Signature:  Date: 3/31/16

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Signature: _____ Date: _____

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