503556637 11/05/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT3603264 Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
EDWARD R. BERNAL	03/26/2015	
SAJU MATHEW	03/26/2015	
JOSE A. NATIVIO	03/30/2015	
AARON J. QUIRK	03/26/2015	
GIOVANNI VIERA	04/01/2015	

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:	14933406

CORRESPONDENCE DATA

Fax Number: (512)370-2850

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: 512-370-2832

Email: rvoigt@winstead.com

Correspondent Name: IBM CORP. (WSM) C/O WINSTEAD P.C.

Address Line 1: P.O. BOX 131851

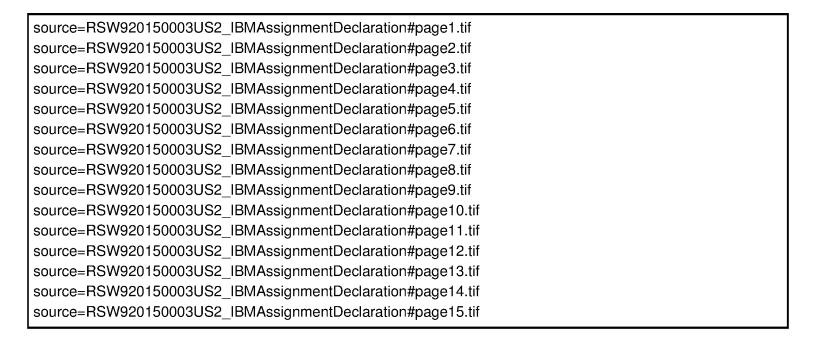
Address Line 4: DALLAS, TEXAS 75313

ATTORNEY DOCKET NUMBER:	RSW920150003US2
NAME OF SUBMITTER:	ROBERT A. VOIGT, JR.
SIGNATURE:	/Robert A. Voigt, Jr./
DATE SIGNED:	11/05/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 15

PATENT REEL: 037054 FRAME: 0573

503556637



PATENT REEL: 037054 FRAME: 0574

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: MIGRATING VIRTUAL MACHINES BASED ON RELATIVE PRIORITY OF VIRTUAL MACHINE IN THE CONTEXT OF A TARGET HYPERVISOR ENVIRONMENT

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	
he above-identified application was made or authorized to be made by me.	
believe that I am the original inventor or an original joint inventor of a claimed invention in the pplication.	
have reviewed and understand the contents of the application, including the claims.	
am aware of the duty to disclose to the United States Patent and Trademark Office all information nown to me to be material to patentability as defined in 37 CFR Section 1.56.	1

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.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has 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 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.

Thereby 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: Edward R. Bernal

Signature: Edward A Bernel	Date: 3/26/2015
(2) Legal Name of Inventor: Saju Mathew	
Signature:	Date:
(3) Legal Name of Inventor: Jose A. Nativio	
Signature:	Date:
(4) Legal Name of Inventor: Auron J. Quirk	
Signature:	Date

(5) Legal Name of Inventor; Giovanni Viera

Signature: _____ Date: _____

Page 3 of 3

Title of Invention: MIGRATING VIRTUAL MACHINES BASED ON RELATIVE PRIORITY OF VIRTUAL MACHINE IN THE CONTEXT OF A TARGET HYPERVISOR ENVIRONMENT

•	
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.

As a below named inventor. I hereby declare that:

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.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has 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 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: Edward R. Bernal	
Signature:	Date:
(2) Legal Name of Inventor: Saju Mathew	
Signature: SyMaH2	Date: <u>03/26/201</u> 5
(3) Legal Name of Inventor: Jose A. Nativio	
Signature:	Date:
(4) Legal Name of Inventor: Aaron J. Quirk	
Signature:	Date:

Page 2 of 3

(5) Legal Name of Inventor: Giovanni Viei	'a	
Signature:	Date·	

Title of Invention: MIGRATING VIRTUAL MACHINES BASED ON RELATIVE PRIORITY OF VIRTUAL MACHINE IN THE CONTEXT OF A TARGET HYPERVISOR ENVIRONMENT

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.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has 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 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: Edward R. Bernal	
Signature:	Date:
(2) Legal Name of Inventor: Saju Mathew	
Signature:	Date:
(3) Legal Name of Inventor: Jose A. Nativio	
Signature:	Date: 03/30/1
(4) Legal Name of Inventor: Aaron J. Quirk	
Signature:	Date:

(5) Legal Name of Inventor: Giovanni Viera		
Signature:	Date:	

Page 3 of 3

Tile of Insention, MIGRATING VIRTUAL MACHINES BASED ON RELATIVE PRIORITY OF VIRTUAL MACHINE IN THE CONTEXT OF A TARGET HYPERVISOR ENVIRONMENT

As a below named inventor, I hereby declare that:

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.

Fam assure of the daty to disclose to the United States Patent and Trademark Office of information Account to the to be material to patentability as defined in 17 CPR Section 1.56

Whereas, the undersigned inventors (has have made certain inventions, improvements, and discoveres therein referred to as the "Invention" (discussed in the above identified patient application and further identified by the IBM Dicker Number provided above in the header of this discounters.

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 Inventors and in and to acy and all patent applications and patents directed thereto.

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being highly acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to HIM (the "ASSIGNED"), its successors, [e.g.] representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above identified I mied 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 prosdictions, including oil divisions, continuations, reissues, recommunitions, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the Time of such applications and granting of such patents. In addition, each understanced inventor have beauthorizes and requests the Director of the United States Patent and Trademark Office to usual any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the invention, to 1850. as successors, legal representatives, and assigns the entire worldwide right title, and interest in any little game to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which are and all such patents may be granted as fully and entirely as would have been held and enjoyed by the andersigned had this Assignment not been made, and each undersigned inventor agrees to execute any and all documents and instruments and perform all lay ful acts reasonably related to ecording this Assignment or perfecting tale to the invention and all related patents and applications, in IBM, ne successors, legal representatives, and assigns, whenever requested by IBM, its successors, $\{a_{ij}\}$ representatives of ASSIATIVE

Page Lat 9

REEL: 037054 FRAME: 0584

Each undersigned invertor acknowledges their processed ongoing obligations to self-assets, and transfer the rights under the Assignment to IBM and is unaversed any reason why they may not have the full and issential before right to self-assets, and transfer the rights series old, assigned, and transferred and have not executed, and will not execute, any document or instrument in conflict between I-Bach undersigned inventor also hereby grants (IBM) as successors, legal representatives and assets, the right to insert in this Assignment any further identification (including, but not limited to putent Application Number) which may be necessary or designable for recordation of this Assignment. This Assignment is go enter by the substantive law of the State of New York, and any disputes will be resolved in a New York state court or lederal court steel in New York.

Thereby acknowledge that any willful take at tenent made in the declaration is punishable under 18 U.S.C. 1001 by time or improviment of not more than five (5) years or fold:

(i) Legal Name of Inventor Edward R. Bernal		
Signature	Date	
(2) Legal Name of Inventor Saju Mathew		
Signature	Date	
(3) Legal Name of Inventor Jose A. Nativio		
Signature:	Date	
(4) Legal Name of Inventor Auron J. Quirk		
significant of the significant o	Sec. 2	e de la companya de l

Page 2 of 3

REEL: 037054 FRAME: 0585

Company Stern			
	14		

PATENTREEL: 037054 FRAME: 0586

Title of Invention: MIGRATING VIRTUAL MACHINES BASED ON RELATIVE PRIORITY OF VIRTUAL MACHINE IN THE CONTEXT OF A TARGET HYPERVISOR ENVIRONMENT

· · · · · · · · · · · · · · · · · · ·	
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.

As a below named inventor. I hereby declare that:

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.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has 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 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: Edward R. Bernal	
Signature:	Date:
(2) Legal Name of Inventor: Saju Mathew	
Signature:	Date:
(3) Legal Name of Inventor: Jose A. Nativio	
Signature:	Date:
(4) Legal Name of Inventor: Aaron J. Quirk	
Signatura	Date:

(5) Legal Name of Inventor: Giovanni Viera	
Signature/Valuanai Ui	Date: 4/0//2015

Page 3 of 3

PATENT REEL: 037054 FRAME: 0589