504863996 04/11/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4910736

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER A PETERS	10/01/2012
PUTHOKODE G RAMACHANDRAN	08/05/2013
LORIN E ULLMANN	09/28/2012
CRAIG LAWTON	08/24/2016
JOHN P WHITFIELD	08/24/2016

RECEIVING PARTY DATA

Name: INTERNATIONAL BUSINESS MACHINES CORPORATION	
Street Address:	NEW ORCHARD RD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15950729	

CORRESPONDENCE DATA

Fax Number:

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: 405-812-5613

Email: rfrantz@franklingray.com
Correspondent Name: ROBERT H. FRANTZ
Address Line 1: P.O. BOX 23324

Address Line 4: OKLAHOMA CITY, OKLAHOMA 73123

ATTORNEY DOCKET NUMBER:	AUS920040589US06
NAME OF SUBMITTER:	ROBERT H FRANTZ
SIGNATURE:	/ Robert H Frantz /
DATE SIGNED:	04/11/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
	·

Total Attachments: 13

PATENT REEL: 045509 FRAME: 0137 source=Declaration_Peters#page1.tif
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PATENT REEL: 045509 FRAME: 0138

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: Creation of Highly Available Pseudo-Clone Standby Servers for Rapid Failover
Provisioning

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

[X] United States application or PCT international application number 13/625,125 filed on 09/24/2012.

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.

Page 1 of 3

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: Vijay K. Aggarwal	
Signature:	Date:
(2) Legal Name of Inventor: Craig Lawton	
Signatore:	Date:
(3) Legal Name of Inventor: Christopher A. Peters	
Signature: Asylon Q Sta	Date: 10/1/12
(4) Legal Name of Inventor: Puthukode G. Ramachandran	
Signature:	Date:

(5)	Legal Name of Inventor: Lorin E. Ullmann	
	Signature:	Date:
(6)	Legal Name of Inventor: John P. Whitfield	
	Signature:	Peta

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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.

Page I of 3

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: Vijay K. Aggarwal

	Signature:	Date:
(2)	Legal Name of Inventor: Craig Luwton	
	Signature:	Date:
(3)	Legal Name of Inventor: Christopher A. Peters	
	Signature:	, Date:
(4)	Legal Name of Inventor: Puthukode G. Ramachandran	i sami
;	Signature:	Date: AUG 5 2013

(5)	Legal Name of Inventor: Larin E. Ullmann	
	Signature:	Date:
(6)	Legal Name of Inventor: John P. Whitfield	
	Signature:	Date:

Please re-use this substitute statement or declaration in continuation patent application docket AUS920040589US06

IBM DOCKET NUMBER: AUS920040589US4

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: Creation of Highly Available Pseudo-Clone Standby Servers for Rapid Failover
Provisioning

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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.

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Page 1 of 3:

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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.

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(1)	Legal Name of Inventor: Víjay K. Aggarwal	
	Signature:	Date:
(2)	Legal Name of Inventor: Craig Lawton	
	Signature:	Date:
(3)	Legal Name of Inventor: Christopher A. Peters	
	Signature:	Date:
(4)	Legal Name of Inventor: Puthukode G. Ramachandran	
	Signature:	Date:

(5) Le	egal Name of Inventor: Lorin E. Ullmann	
Sig	gnature: La 2 Ulr	Date: 9-28-12
(6) Le	egal Name of Inventor: John P. Whitfield	
Sig	gnature:I	Date:

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PTO/AIA/02 (07-13)

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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	Creation of Highly Available Pseudo-Clone Standby Servers for Rapid Failover Provisioning				
This stateme	nt is directed to:				
The atta	sched application,				
OR					
United S	States application or PCT international	application number	625,125 filed on	09/24/2012	
LEGAL NA	ME of inventor to whom this sub	stitute statement appli	es:		
	Name (first and middle (if any)) and Fa				
Craig La	awton				
Residence (e	except for a deceased or legally incapa	citated inventor):			
_{City} Rale	eigh	NC State	US Country		
Mailing Addres	ss (except for a deceased or legally incapac	citated Inventor).			
5238 Cof	fee Tree dr.				
Raleigh State NC Zip 27613 Country US					
I believe the in the app	above-named inventor or joint invento lication.	r to be the original inventor	or an original joint inventor	of a claimed invention	
The above-i	dentified application was made or auth	onzed to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
Relationship to the inventor to whom this substitute statement applies:					
Legal Representative (for deceased or legally incapacitated inventor only).					
Assignee,					
Person to whom the inventor is under an obligation to assign,					
Pe	Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or				
Jo	Joint Inventor				

[Page 1 of 2]

This collection of information is required by 35 U S C 115 and 37 CFR 1 63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U S C 122 and 37 CFR 1 11 and 1 14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer. U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2

SUBSTITUTE STATEMENT

Circumstances permitting execution of this sub-	stitute statement:					
Inventor is deceased,						
Inventor is under legal incapacity.	Inventor is under legal incapacity.					
Inventor cannot be found or reached after diligent effort, or						
Inventor has refused to execute the oath or declaration under 37 CFR 1.63.						
If there are joint inventors, please check the appropriate box below:						
An application data sheet under 37 CFR 1 76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.						
OR						
An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).						
	WARNING:					
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identify theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.						
PERSON EXECUTING THIS SUBSTITUTE STA	TEMENT:					
Name: Timothy M. Farrell, F	Reg. No. 37,32	1	August 24, 2016 Date (Optional):			
Signature: Turka Funell	?					
APPLICANT NAME AND TITLE OF PERSON E						
If the applicant is a juristic entity, list the applican						
International Business Applicant Name:	wachines Corporation					
Title of Person Executing This Substitute Statement: Counsel			_			
	thorized to act on behalf of the	applicant.	ant):			
Residence of the signer (unless provided in	an application data sheet, P	TO/AIA/14 or equival	enty:			
_{city} Alpine	State UT	Country				
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)						
357 N. Main St.						
Alpino	UT	_ 84004	US			
_{city} Alpine	State	IZID	Country			
Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached						
after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.						

[Page 2 of 2]

Please re-use this substitute statement or declaration in continuation patent application docket AUS920040589US06

PTO/AIA/02 (07-13)

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Title of Invention	Creation of Highly Available Pseudo-Clone Standby Servers for Rapid Failover Provisioning				
The att. OR United S LEGAL NA (E.g., Given John P.	ent is directed to: ached application, States application or PCT international ME of inventor to whom this sub Name (first and middle (if any)) and Fa Whitfield except for a deceased or legally incapa	bstitute statement appl amily Name or Surname)	/625,125 filed on	09/24/2012	
_{City} Cary	/	NC State	Country		
Mailing Address (except for a deceased or legally incapacitated inventor) 223 Mindenhall Way					
_{city} Cary	/	State NC	_{Zip} 27513	Country US	
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
Le As	p to the inventor to whom this substituing all Representative (for deceased or lessignee, erson to whom the inventor is under an erson who otherwise shows a sufficient int Inventor.	egally incapacitated inventon obligation to assign,		FR 1.46 is required), or	

[Page 1 of 2]

This collection of information is required by 35 U S C 115 and 37 CFR 1 63 The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U S C 122 and 37 CFR 1 11 and 1 14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Inventor is under legal incapacity,					
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If there are joint inventors, please check the appropriate box below:					
An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.					
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WARNING:					
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PERSON EXECUTING THIS SUBSTITUTE STATEMENT:					
Name: Timothy M. Farrell, Reg. No. 37,321 August 24, Date (Optional	, 2016):				
Signature:					
APPLICANT NAME AND THE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:					
If the applicant is a juristic entity, list the applicant name and the title of the signer:					
International Business Machines Corporation Applicant Name:					
Title of Person Executing Councel					
The signer, whose title is supplied above, is authorized to act on behalf of the applicant.					
Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):					
City Alpine State UT Country					
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent) 357 N. Main St.					
City Alpine State UT Zip 84004 Country US	S				
Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the eath or declaration under 37 CFR 1.63.					
raner unicem enon, or has remocu io execute the Odill Of Geograpion unicel 37 Of 15 1.00.					

[Page 2 of 2]