502886493 07/10/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2933090

			NEW ASSIGNMENT		
NATURE OF CONVEYANCE:			ASSIGNMENT		
CONVEYING PARTY	DATA				
		1	Name		Execution Dat
VASANTH BALA					06/25/2014
EA-EE JAN					06/20/2014
LAKSHMINARAYANAN RENGANAR			YANA		06/30/2014
WOLFGANG O.H. RICHTER					06/26/2014
XIAOLAN ZHANG					06/23/2014
RECEIVING PARTY D	ΑΤΑ				
Name:		RNATIO	NAL BUSINESS MACHI	NES COI	RPORATION
Street Address:	NEW	ORCHA	RD ROAD		
City:	ARMC	DNK			
State/Country:	NEW	YORK			
Postal Code:	10504				
PROPERTY NUMBER	S Total:	1			
Property Type	•		Number		
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Application Number:					
Application Number: CORRESPONDENCE	DATA				
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CORRESPONDENCE Fax Number: <i>Correspondence will</i> <i>using a fax number, in</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N IAME OF SUBMITTER	be sent t f provide : :	to the e od; if that 914-76 mlmat IBM C 294 R P.O. E SOME	-mail address first; if th at is unsuccessful, it wi 66-0567 hew@us.ibm.com ORP - ENDICOTT DRAF OUTE 100 BOX 100 ERS, NEW YORK 10589- YOR920140031US1 NICHOLAS CADMUS	TING CE	t via US Mail.

Total Attachments: 10

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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

Title of Invention: APPLICATION DISCOVERY IN VIRTUAL MACHINES USING TEMPORAL CLUSTERING OF INSTALLATION FILES

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 _______

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 cluimed 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 ("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 lowful 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,

Page 1 of 2



USYKTLE5

IBM DOCKET NUMBER: YOR920140031US1

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: Vasanth Bala

acanth Bala Date: 6/25/2014 Signature:

(2) Legal Name of Inventor; Ea-Ee Jan

Signature:

(3) Legal Name of Inventor: Lakshminarayanan Renganarayana

Signature:Date:	

Date:____

(4) Logal Name of Inventor: Wolfgang O.H. Richter

Date: Signature:

(5) Legal Name of Inventor: Xiaolan Zhang

Date: Signature:____

Page 2 of 2



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| [United States application or PCT informational application number_______

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Now, therefore, for good and valuable consideration, the receipt and sufficiency, thereof being hereby acknowledged. Unergive self or have sold, assign or have assignest, and otherwise transfer or have transferred to the ANSKINEL, its successors, legal representatives, and assigns, my entite worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any sust all other patent applications and patents for the hivenbon which may be applied for or ground therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissnew, reexaminations, renewals, extensions, counterparts, substitutes, and extensions the read, and all rights of priority resulting from the filing of such applications and granting of study patents. In addition, I hereby intherize and request the Director of the United States Patent and Trademark Office to issue any United States Paren, and foreign patent authorities to issue any foreign pateral granted for the Invention, tealie ASSIGNET, 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 successory, logal representatives, and assigns to the full end of the terms for which my and all such pateries may be granted, as fifty and entirely as would have been held and entoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all hereful acts reasonably related to recording this Assignment or perfecting lifts to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, schemes or mathematical by the ASSIGNEE, its successors, logid representatives, or assigns,

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(1) Legal Sume of lovement Vasantli Bala

Shouthe'	Date:
(2) Legal Nume of Inventor: En-Ee Jan	
Signalme:	
(3) Legal Name of Inventor: Lakshminarayanan Renganar	rayana
Signature	Date:
(1) Légal Sañié of Investor: Wolfgang O.H. Richter	
Sign:durc:	Diste:
(5) Legal Name of Inventor: Xiaolan Zhang	
Sizonors	Date
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(1) Legal Name of Inventor: Vasanth Bala

	Signature:	Date:
(2)	Legal Name of Inventor: Ea-Ee Jan	
	Signature:	Date;
(3)	Legal Name of Inventor: Lakshminarayanan Renganarayana	
	signature: R. Lakshminarozman	Date: June 30, 2014
(4)	Legal Name of Inventor: Wolfgang O.H. Richter	
	Signature:	Date:
(5)	Legal Name of Inventor: Xiaolan Zhang	
	Signature:	_Date;
	Page 2 of 2	

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	Signature:	Date:
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	Signature:	Date:
(3)	Legal Name of Inventor: Laksliminarayanan Renganarayana	
	Signature:	Date:
	Legal Name of Inventor: Wolfgang O.H. Richter Signature: Wolfgap J.H.M.	Date: JUNE 26, 2014
(5)	Legal Name of Inventor: Xiaolan Zhang	
	Signature:	Date:

Page 2 of 2

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Signature	Date;
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Signature:	Date:
(5) Legal Name of Inventor: Xinolan Zhang Signature:	<u>Date: 6/23/14</u>
Page 2	3

PATENT REEL: 033286 FRAME: 0865

RECORDED: 07/10/2014