504019031 09/23/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
TOM HAGAN	11/12/2015
ROBIN H LEWIS	11/13/2015
JEFF N MARINSTEIN	11/12/2015
RAMANI RANJAN ROUTRAY	11/10/2015
YANG SONG	11/10/2015

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:	15273837

CORRESPONDENCE DATA

Fax Number: (518)452-5579

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: 518-452-5600 **Email:** spl@hrfmlaw.com

Correspondent Name: HESLIN ROTHENBERG FARLEY & MESITI, PC

Address Line 1: 5 COLUMBIA CIRCLE

Address Line 4: ALBANY, NEW YORK 12203

ATTORNEY DOCKET NUMBER:	END920150289US2	
NAME OF SUBMITTER:	HYE JIN LUCY SONG	
SIGNATURE:	/s/Hye Jin Lucy Song	
DATE SIGNED:	09/23/2016	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
T		

Total Attachments: 10

PATENT REEL: 039839 FRAME: 0511

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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: Optimized Disaster-Recovery-as-a-Service system

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 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, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referre		

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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(H0431764.1) Page 1 of 2

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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: Tom Hagan	
	Signature: Auto-	Date: Wov. 12, 2019
(2)	Legal Name of Inventor: Robin H Lewis	
	Signature:	Date:
(3)	Legal Name of Inventor: Jeff N Marinstein	
	Signature:	Date:
(4)	Legal Name of Inventor: Ramani Ranjan Routray	
	Signature:	Date:
(5)	Legal Name of Inventor: Yang Song	
	Signature:	Date:

(H0431764.1) Page 2 of 2

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IBM DOCKET NUMBER: END/ORISEORIUSI

Assignment to the ASSIGNISH and an insurance of any courses why I carry not have the full and more constraints benefit to sell, assign, and transfer my rights benefit sold, assigned, and transferred, and bare not executed, and will not execute, any document or insurances in conflict between I also benefit grant the ASSIGNIEI, its successor, legal representatives, and assigns, the right to much so this Assignment say further adoptions (excluding, but not limited to, puters Application Number) which may be necessary or describe for incordation of the Assignment. This Assignment is governed by the substantive laws of the State of New York, and any dispects well be resolved as a New York state court or federal court sized in New York.

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1) Legal Name of Inventor Post Hagan Seguation Astro-	Dan Alon 12,2015
(2) Legal Name of Investor: Robin II Lewis Signature Robin Gui	nes Nov 13 2015
3) Legal Name of Inventor, Jeff N Mariantida	
Signature 4) Legal Name of Investor: Ramani Ranjan Routray	
Signature:	
Signature	
estine it Page 2 of 2	

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Signature:	Date:
(2) Legal Name of Inventor: Robin H Lewis	
Signature:	Date:
(3) Legal Name of Inventor: Jeff N Marinstein	
Signature:	Date: 11 12 2015
(4) Legal Name of Inventor: Ramani Ranjan Routray	
Signature:	Date:
(5) Legal Name of Inventor: Yang Song	
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(H0431764.1) Page 2 of 2	

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Signature:	Date: 11 / (2) (221)"

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