03/11/2016 503732437

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3779079

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HAROLD W. CAIN III	01/10/2014
MICHAEL KARL GSCHWIND	01/10/2014
MAGED M. MICHAEL	01/10/2014
DR. VALENTINA SALAPURA	01/10/2014
ERIC M. SCHWARZ	01/10/2014

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15067264

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	POU920130126US3
NAME OF SUBMITTER:	MAEVE CARPENTER
SIGNATURE:	/Maeve Carpenter/
DATE SIGNED:	03/11/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 037952 FRAME: 0458 503732437

Total Attachments: 12 source=POU920130126US3_Assignment_Declaration#page1.tif source=POU920130126US3_Assignment_Declaration#page2.tif source=POU920130126US3_Assignment_Declaration#page3.tif source=POU920130126US3_Assignment_Declaration#page4.tif source=POU920130126US3_Assignment_Declaration#page5.tif source=POU920130126US3_Assignment_Declaration#page6.tif source=POU920130126US3_Assignment_Declaration#page7.tif source=POU920130126US3_Assignment_Declaration#page8.tif source=POU920130126US3_Assignment_Declaration#page9.tif source=POU920130126US3_Assignment_Declaration#page10.tif source=POU920130126US3_Assignment_Declaration#page11.tif source=POU920130126US3_Assignment_Declaration#page12.tif

PATENT REEL: 037952 FRAME: 0459

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: SALVAGING HARDWARE TRANSACTIONS

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 numberfiled 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 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

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 "ASSIGNUE"), 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

(1) Legal Name of Inventor: Harold W. Cain III

IBM DOCKET NUMBER POU920130126US1

Fach 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.

Signature: 111	Date: 1/10/20
(2) Legal Name of Inventor: Michael Karl Gschwind	
Signature:	Date:
(3) Legal Name of Inventor: Maged M. Michael	
Signature:	Date:
(4) Legal Name of Inventor: Dr. Valentina Salapura	
Signature:	Date;

(5) Legal Name of Inventor: Eric M. Schwarz

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Signature:	Dato:

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(1)	Legal Name of Inventor: Harold W. Cain III		
	Signature:	Date:	
(2)	Legal Name of Inventor: Michael Karl Gschwind		
	Signature: Las fal file	Date:	- 1/10/14
(3)	Legal Name of Inventor: Maged M. Michael		
	Signature:	Date:	
(4)	Legal Name of Inventor: Dr. Valentina Salapura		
	Signature: Walny Cullynn	Date:	1/10/2019

(5)	Legal Name of Inventor:	Eric M. Schwarz	
	Signature:		 _Date:

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Signature:	Date:
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Signature:	Date:
(3) Legal Name of Inventor: Maged M. Michael	
Signature: Magrol 4 Mi Shor	Date: 10 January 2014
(4) Legal Name of Inventor: Dr. Valentina Salapura	a
Signature:	Date:

(5)	regai rame of myentor:	Eric M. Schwarz
S	Signature:	Date:

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Signature:	Date:
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Signature: -	Date:
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Signature:	Date:
(4) Legal Name of Inventor: Dr. Valentin	ia Salapura
Signature:	Date:

(5) Legal Name of Inventor: Eric M. Schwarz

Signature:

Date

Page 3 of 3

PATENT REEL: 037952 FRAME: 0471

RECORDED: 03/11/2016