12/12/2016 504140380

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THERESA M. BROWN	11/29/2016
ANTHONY J. CIARAVELLA	11/29/2016
NICOLAS M. CLAYTON	11/29/2016
MICHAEL S. GAGNER	11/29/2016
THEODORE T. HARRIS JR.	11/29/2016
MARK L. LIPETS	11/29/2016
GREGORY E. MCBRIDE	11/29/2016
CAROL S. MELLGREN	12/01/2016
MATTHEW J. WARD	12/01/2016

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:	15368321

CORRESPONDENCE DATA

Fax Number: (310)556-7984

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ATTORNEY DOCKET NUMBER:	TUC920160190US1 18.679
NAME OF SUBMITTER:	KARLIN MEEHAN

SIGNATURE:	/Karlin Meehan/
DATE SIGNED:	12/12/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 9	<u> </u>
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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: ASYNCHRONOUS LOCAL AND REMOTE GENERATION OF CONSISTENT POINT-IN-TIME SNAP COPIES

As a below named and undersigned inventor, I hereby declare that:

to be material to patentability as defined in 37 C.F.R. § 1.56.

This declaration is directed to the attached application, or (if following bo	ox is checked):	
[] United States application or PCT international application number	15/368,321	filed or
The above-identified application was made or authorized to be made by n	ne.	
I believe that I am the original inventor or an original joint inventor of a c	laimed invention in the a	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 Tradem	ark Office all informatio	n known to me

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 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.

Page 1 of 3-Dec & Assign

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: Theresa M. BROWN	š.
SIGNATURE: The Difference of the Control of the Con	DATE: 11/29/20/6
(2) Legal Name of Inventor: Anthony J. CIARAVELLA	
SIGNATURE: 4	DATE: 11/29/201
(3) Legal Name of Inventor: Nicolas M. CLAYTON	
SIGNATURE:	DATE:
(4) Legal Name of Inventor: Michael S. GAGNER	
SIGNATURE:	DATE: 11/29/2016
(5) Legal Name of Inventor: Theodore T. HARRIS, JR.	
SIGNATURE: Heide 774-1	DATE: 1/-29-16

Page 2 of 3- Dec & Assign

(0) Legal Name of Inventor: Mark L. LIPEIS	
SIGNATURE: M. LIJOQ	DATE: <u>///24/20</u> 16.
(7) Legal Name of Inventor: Gregory E. MCBRIDE	
SIGNATURE: Confort & WETZSCLO	DATE: 29 1/05 1/6
(8) Legal Name of Inventor: Carol S. MELLGREN	
SIGNATURE:	DATE:
(9) Legal Name of Inventor: Matthew J. WARD	
SIGNATURE Matthew Want	DATE: 12/01/26/6

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Now, therefore, for good and valuable consideration, the receipt and suffice acknowledged, I hereby sell or have sold, assign or have assigned, and of the ASSIGNEE, its successors, legal representatives, and assigns, my entire and to the Invention, the above-identified United States patent application, applications and patents for the Invention which may be applied for or graph all foreign countries and jurisdictions, including all divisions, continuation extensions, counterparts, substitutes, and extensions thereof, and all rights such applications and granting of such patents. In addition, I hereby authority	herwise transfer or have to re worldwide right, title, and any and all other particle therefor in the United ins, reissues, reexaminations of priority resulting from	cransferred to and interest in tent ed States and in ns, renewals, in the filing of

Page 1 of 3- Dec & Assign

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

ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all

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

assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the

such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this

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(1) Legal Name of Inventor: Theresa M. BROWN	
SIGNATURE:	DATE:
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SIGNATURE:	DATE:
(3) Legal Name of Inventor: Nicolas M. CLAYTON SIGNATURE:	DATE: 29/11/16
	* * * * * * * * * * * * * * * * * * *
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(5) Legal Name of Inventor: Theodore T. HARRIS, JR.	
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Page 2 of 3- Dec & Assign

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RECORDED: 12/12/2016 REEL: 040707 FRAME: 0136