503938825 07/29/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3985479

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MATHIAS DIETZ	12/23/2015
DEAN HILDEBRAND	01/04/2016
SIMON LORENZ	12/27/2015
BRIAN NELSON	01/06/2016
WILLIAM W. OWEN	01/07/2016
RAINER WOLAFKA	01/07/2016

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:	15224182

CORRESPONDENCE DATA

Fax Number: (408)971-4660

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: (408) 971-2573 Email: alma@zilkakotab.com ZILKA-KOTAB, PC **Correspondent Name:** Address Line 1: 1155 N. 1ST ST. Address Line 2: **SUITE 105**

Address Line 4: SAN JOSE, CALIFORNIA 95112

ATTORNEY DOCKET NUMBER:	SJO920150088US2/IBM1P436A
NAME OF SUBMITTER:	DOMINIC M. KOTAB
SIGNATURE:	/Dominic M. Kotab/
DATE SIGNED:	07/29/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

REEL: 039515 FRAME: 0311 503938825

PAIENI

Total Attachments: 7

source=SJO920150088US2_IBM1P436A_SignedAssignDecForm_07-29-2016#page1.tif source=SJO920150088US2_IBM1P436A_SignedAssignDecForm_07-29-2016#page2.tif source=SJO920150088US2_IBM1P436A_SignedAssignDecForm_07-29-2016#page3.tif source=SJO920150088US2_IBM1P436A_SignedAssignDecForm_07-29-2016#page4.tif source=SJO920150088US2_IBM1P436A_SignedAssignDecForm_07-29-2016#page5.tif source=SJO920150088US2_IBM1P436A_SignedAssignDecForm_07-29-2016#page6.tif source=SJO920150088US2_IBM1P436A_SignedAssignDecForm_07-29-2016#page7.tif

PATENT REEL: 039515 FRAME: 0312

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: CONCURRENT FILE AND OBJECT PROTOCOL ACCESS USING SPACE-EFFICIENT CLONING

As a below named and undersig	ned inventor, I hereby declare the			
This declaration is directed to 1	se attached application, or (if fol	llowing box is ches	ked):	
	or PCT international applicatio	n number		1
filed on				

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 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 self 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 bereby 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

Page 1 of 3

IBM DOCKET NUMBER: IBM IP436/SJO920150088US1

related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Lacknowledge 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.

Thereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1901 by fine or imprisonment of not more than five (5) years, or both.

(1)	Legal Name of Inventor:	Mathias Dietz	
	Signature:		Date: <u>23.42.2045</u>
Ø	Legal Name of Inventor:	Desin Hildebrand	
	Signature:		Date:
(3)	Legal Name of Inventor:	Simon Lorenz	
	Signature:		
(4)	Legal Name of Inventor:	Brian Neison	
	Signature:		Date:

IBM DXXXET NUMBER: IBM1P436/SJO920150088US1

related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and an unaware of any reason why I may not have the full and unencombered 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 furned to patent Application Number) which may be necessary or desirable for recondation 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 ponishable under 18 U.S.C. 1001 by fine or augmisonment of not more than five (5) years, or both.

(1)	Legal Name of Inventor: Reathers Lhet?	
	Signature:	Date:
(2)	Legal Name of Inventor: Dean Hildebrand	
	Signature: 4	Date: <u>1/4/2015</u>
(3)	Legal Name of Inventor: Simon Lorenz	
	Signature:	Date:
(4)	Legal Name of Inventor: Brian Notson	
	Signature:	Date

IBM DOCKET NUMBER: IBM1P436/SJO920150088US1

related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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: Mathias Dietz	
	Signature:	Date:
(2)	Legal Name of Inventor: Dean Hildebrand	
	Signature:	Date:
(3)	Legal Name of Inventor: Simon Lorenz	
	Signature: Surea Jacks	Date: 12,27,15
(4)	Legal Name of Inventor: Brian Nelson	
	Signature:	Date:

IBM DOCKET NUMBER: IBM1P436/SJO920150088US1

related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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: Mat	hias Dietz		
	Signature:		Date:	
(2)	Legal Name of Inventor: Dez	an Hildebrand		
	Signature:		Date:	
(3)		ion Lorenz		
	Signature:		Date:	
(4)	Legal Name of Inventor: Bri Signature:	an Nelson	Date:	1 2016

IBM DOCKET NUMBER: IBMIP436/SJO920150088USI

(5)	Legal Name of Inventor: William W. Owen	
	Signature: WWw.W.Ow	Date: Jan 7, 2016
(6)	Legal Name of Inventor: Rainer Wolafka	
	Signature:	Date:

REEL: 039515 FRAME: 0318

IBM DOCKET NUMBER: IBM1P436/SJO920150088US1

(5)	Legal Name of Inventor:	William W. Owen	
	Signature:		Date:
(6)	Legal Name of Inventor:	Rainer Wolafka	
	Signature: Ramer	Wolalka	Date: 01/07/2016