503393935 07/15/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3440560

NATURE OF CONVEYANCE: ASSIGNMENT CONVEYING PARTY DATA Name Execution I			
	ASSIGNMENT		
Name Execution I			
)ate		
ITZHACK GOLDBERG 12/20/2012			
MICHAEL KELLER 12/26/2012			
MORIEL LECHTMAN 12/23/2012			
ORIT NISSAN-MESSING 01/27/2013			
ELIYAHU WEISSBREM 01/27/2013			
RECEIVING PARTY DATA			
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City: ARMONK			
State/Country: NEW YORK			
Postal Code: 10504			
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PROPERTY NUMBERS Total: 1			
Property Type Number			
Application Number: 14800351			
CORRESPONDENCE DATA			
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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.			
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Email:docketing@gs-iplaw.comCorrespondent Name:GRIFFITHS & SEATON PLLC (IBM)			
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Email:docketing@gs-iplaw.comCorrespondent Name:GRIFFITHS & SEATON PLLC (IBM)Address Line 1:3813 E. KENWOOD ST.Address Line 4:MESA, ARIZONA 85215ATTORNEY DOCKET NUMBER:SJO920120099US2 (524.U02)			
Email:docketing@gs-iplaw.comCorrespondent Name:GRIFFITHS & SEATON PLLC (IBM)Address Line 1:3813 E. KENWOOD ST.Address Line 4:MESA, ARIZONA 85215ATTORNEY DOCKET NUMBER:SJO920120099US2 (524.U02)NAME OF SUBMITTER:JOHN A. GRIFFITHS			
Email:docketing@gs-iplaw.comCorrespondent Name:GRIFFITHS & SEATON PLLC (IBM)Address Line 1:3813 E. KENWOOD ST.Address Line 4:MESA, ARIZONA 85215ATTORNEY DOCKET NUMBER:SJO920120099US2 (524.U02)NAME OF SUBMITTER:JOHN A. GRIFFITHS			
Email:docketing@gs-iplaw.comCorrespondent Name:GRIFFITHS & SEATON PLLC (IBM)Address Line 1:3813 E. KENWOOD ST.Address Line 4:MESA, ARIZONA 85215ATTORNEY DOCKET NUMBER:SJO920120099US2 (524.U02)NAME OF SUBMITTER:JOHN A. GRIFFITHSSIGNATURE:/JOHN A. GRIFFITHS/	3).		

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: VOLUME INITIALIZATION FOR ASYNCHRONOUS MIRRORING

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

[X] United States application or PCT international application number <u>13/764,031</u> filed on <u>2013-02-11</u>

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 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 "ASSIGNEE"), 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,

PATENT REEL: 036099 FRAME: 0750

IBM DOCKET NUMBER: \$J0920120099U\$1 (0524)

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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: Itzhack GOLDBERG

	Signature: <u>IT2200 (11 6.01 A.C.(2.6.6.</u>	s, silik	 Date:	2412./12/22
(2)	Legal Name of Inventor: Michael KELLER			
	Signature:		 Date	
(3)	Legal Name of Inventor: Moriel LECHTMAN			
	Signature		 Date:	
(4)	Legal Name of Inventor: Orit NISSAN-MESSI	NG		
	Signature:		 Date	

JIF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWSJ

Page 2 of 3

PATENT REEL: 036099 FRAME: 0751

IBM DOCKET NUMBER: SJO920120099US1 (0524)

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(1) Legal Name of Inventor: Itzhack GOLDBERG

Signature:_____ Date:_____

(2) Legal Name of Inventor: Michael KELLER

(3) Legal Name of Inventor: Moriel LECHTMAN

Signature:_____ Date:_____

(4) Legal Name of Inventor: Orit NISSAN-MESSING

Signature:______Date:_____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

PATENT REEL: 036099 FRAME: 0752

IBM DOCKET NUMBER: \$J0920120099U\$1 (0524)

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(1) Legal Name of Inventor: Itzhack GOLDBERG

	Signature:	Date
(2)	Legal Name of Inventor: Michael KELLER	
	Signature:	_Date:
(3)	Legal Name of Inventor: Moriel LECHTMAN	
	Signature: Montel Location - COCCA	Date: 25/11/12
(4)	Legal Name of Inventor: Orit NISSAN-MESSING	
	Signature:	Date:

HF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS



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(1) Legal Name of Inventor: Itzback GOLDBERG

	Signature:	Date:
(2)	Legal Name of Inventor: Michael KELLER	
	Signature	Date:
(3)	Legal Name of Inventor: Moriel LECHTMAN	
	Signature:	Date:
(4)	Legal Name of Inventor: Orit NISSAN-MESSING	
	Signature:	Date: <u>27/JAN/</u> 201
	/ [IF MORE INVENTORS, ADDITIONAL SIGNATUR	E PAGE(S) FOLLOWS

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IBM DOCKET NUMBER: SJO920120099US1 (0524)

(5) Legal Name of Inventor: Eliyahu WEISSBREM

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Signature:	- Spy	Date: 27/311/2013

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Page 3 of 3

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