PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2604398

SUBMISSION TYPE:		NEW ASSIGNMENT	NEWASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DATA					
Name Exe			Execution Date		
BEN SASSON			10/28/2013		
ORI SHALEV 10/28/2013			10/28/2013		
RECEIVING PARTY	RECEIVING PARTY DATA				
Name:		IAL BUSINESS MACHINES CORPOR	ATION		
Street Address:					
City:	ARMONK				
State/Country:	NEW YORK				
Postal Code:	10504				
PROPERTY NUMBERS Total: 1					
Property Type		Numb	Number		
Application Number:	1	4072602			
CORRESPONDENCE DATA					
CORRESPONDENCE	DATA			;	
	DATA				
CORRESPONDENCE Fax Number: Phone:		93-0734		2000 2000	
Fax Number:	480-3	93-0734 ting@gs-iplaw.com		6 00 00	
Fax Number: Phone: Email: <i>Correspondence will I</i>	480-3 docke be sent via US M	ting@gs-iplaw.com <i>fail when the email attempt is unsucces</i>	ssful.		
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Fax Number: Phone: Email: <i>Correspondence will I</i> Correspondent Name Address Line 1: Address Line 4:	480-3 docke be sent via US M : GRIF 2108 MESA	ting@gs-iplaw.com <i>fail when the email attempt is unsucces</i> FITHS & SEATON PLLC (IBM) N. LEMON STREET A, ARIZONA 85215	ssful.	0007	
Fax Number: Phone: Email: <i>Correspondence will I</i> Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET	480-3 docke be sent via US M : GRIF 2108 MESA	ting@gs-iplaw.com <i>fail when the email attempt is unsucces</i> FITHS & SEATON PLLC (IBM) N. LEMON STREET A, ARIZONA 85215 TUC920120119US2 (484.U02)	ssful.		
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PATENT REEL: 031549 FRAME: 0310

Total Attachments: 3

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TUC920120119US2 (484.U02)

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: EFFICIENTLY STORING AND RETRIEVING DATA AND METADATA

As a below named inventor, I hereby declare that:

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

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: 031549 FRAME: 0312

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Each 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.

(1) Legal Name of Inventor: Ben SASSON

Signature:

_____Date: 2.8/43/2043

(2) Legal Name of Inventor: Ori SHALEV

Signature:

Date:

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

TUC920120119US2 (484.U02)

Each 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.

(1) Legal Name of Inventor: Ben SASSON

	Signature	Date:
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(2) Legal Name of Inventor: Ori SHALEV

_____Date:__10/2-8/2013 Signature:

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