

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Peter Bak</td> <td>10/28/2012</td> </tr> <tr> <td>Sivan Harary</td> <td>10/28/2012</td> </tr> <tr> <td>Mattias Marder</td> <td>10/29/2012</td> </tr> <tr> <td>Harold Jeffrey Ship</td> <td>10/28/2012</td> </tr> <tr> <td>Avi Yaeli</td> <td>10/29/2012</td> </tr> </tbody> </table>		Name	Execution Date	Peter Bak	10/28/2012	Sivan Harary	10/28/2012	Mattias Marder	10/29/2012	Harold Jeffrey Ship	10/28/2012	Avi Yaeli	10/29/2012
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Peter Bak	10/28/2012												
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Harold Jeffrey Ship	10/28/2012												
Avi Yaeli	10/29/2012												
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													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13731017</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13731017								
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Application Number:	13731017												
CORRESPONDENCE DATA													
Fax Number:	9149453281												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Email:	HRL_IPDEPARTMENT@il.ibm.com												
Correspondent Name:	Suzanne Erez												
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Address Line 2:	IP Law Department												
Address Line 4:	Yorktown Heights, NEW YORK 10598												
ATTORNEY DOCKET NUMBER:	IL920120046US1												
NAME OF SUBMITTER:	Suzanne Erez												
	This document serves as an Oath/Declaration (37 CFR 1.63).												
Total Attachments: 3 source=IL920120046US1_signed_assign#page1.tif source=IL920120046US1_signed_assign#page2.tif source=IL920120046US1_signed_assign#page3.tif													

CH \$40.00 13731017

PATENT

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: SPATIOTEMPORAL ENCOUNTERS DETECTION IN HISTORICAL MOVEMENT DATASETS

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 number 131731017
filed on 30 December 2012.

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 therefore 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.

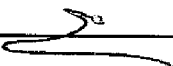
Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, 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: **Peter Bak**

Signature:  _____ Date: 28 OCT 12

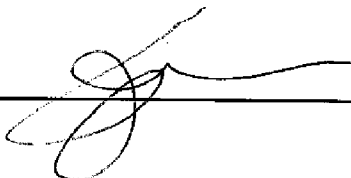
(2) Legal Name of Inventor: **Sivan Harary**

Signature:  _____ Date: 28 OCT 2012

(3) Legal Name of Inventor: **Mattias Marder**

Signature:  _____ Date: 29 Oct 2012

(4) Legal Name of Inventor: **Harold-Jeffrey Ship**

Signature:  _____ Date: 28 OCT 2012

IBM DOCKET NUMBER: IL920120046US1

(5) Legal Name of Inventor: **Avi Yaeli**

Signature:  Date: 29 Oct 2012