PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
David Gotz	10/26/2012
Adam Perer	11/01/2012
Zhiyuan Zhang	10/26/2012

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

Property Type	Number	
Application Number:	13650786	

CORRESPONDENCE DATA

Fax Number: 2032556570

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 203-255-6560 Email: bab@rml-law.com Correspondent Name: Kevin M. Mason

Address Line 1: Ryan, Mason & Lewis, LLP Address Line 2: 1300 Post Road, Suite 205 Fairfield, CONNECTICUT 06824 Address Line 4:

ATTORNEY DOCKET NUMBER:	FORNEY DOCKET NUMBER: YOR920120786US1	
NAME OF SUBMITTER:	Kevin M. Mason	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT

REEL: 029264 FRAME: 0296

Total Attachments: 7 source=YOR920120786US1_Assignment_11-8-12#page1.tif source=YOR920120786US1_Assignment_11-8-12#page2.tif source=YOR920120786US1_Assignment_11-8-12#page3.tif source=YOR920120786US1_Assignment_11-8-12#page4.tif source=YOR920120786US1_Assignment_11-8-12#page5.tif

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PATENT REEL: 029264 FRAME: 0297

RECORDATION FORM COVER SHEET PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.		
Name of conveying party(ies) David Gotz, Adam Perer, Zhiyuan Zhang	2. Name and address of receiving party(ies) Name: International Business Machines Corporation Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 10-26-12, 11-1-12, 10-26-12	Street Address: New Orchard Road	
Assignment Merger Security Agreement Change of Name Joint Research Agreement	City: Armonk State: NY	
Government Interest Assignment Executive Order 9424, Confirmatory License Other	Country: USA Zip: 10504 Additional name(s) & address(es) attached? Yes No	
A. Patent Application No.(s) 13/650,786	document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)	
Additional numbers attached? Yes No 5. Name and address to whom correspondence concerning document should be mailed: Name: Kevin M. Mason 7. Total for (37 CER 1.21(b) 8.3.41) \$40.00		
Internal Address: Ryan, Mason & Lewis, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$\frac{40.00}{}\$ Authorized to be charged to deposit account	
Street Address: 1300 Post Road Suite 205	Enclosed None required (government interest not affecting title)	
City: Fairfield	8. Payment Information	
State: CT Zip: 06824 Phone Number: 203-255-6560 Docket Number: YOR920120786US1 Email Address: kmm@rml-law.com	Deposit Account Number 50-0510 Authorized User Name Ryan, Mason & Lewis, LLP	
9. Signature: Ku M Noc	November 8, 2012	
Signature Kevin M. Mason Name of Person Signing Documents to be recorded (including cover sheet	Date Total number of pages including cover sheet, attachments, and documents: Total number of pages including cover sheet, attachments, and documents:	
Mail Stop Assignment Recordation Services, Director of	the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450	

PATENT REEL: 029264 FRAME: 0298

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: ITERATIVE REFINEMENT OF COHORTS USING VISUAL EXPLORATION AND DATA ANALYTICS

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>13/650,786</u> filed on <u>October 12</u>, 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 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.

Page 1 of 2

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.

Thereby 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, David Gotz	
Signature:	Date: 10/26/2012
(2) Legal Name of Inventor: Adam Perer	
Signature:	Date:
(3) Legal Name of Inventor: Zhiyuan Zhang	
Signature:	Date:

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(1) Legal Name of Inventor: David Gotz	•
Signature:	Date:
(2) Legal Name of Inventor: Adam Perer Signature:	Pote: 11/1/2012
(3) Legal Name of Inventor: Zhiyuan Zhang	Date: <u>11/1/2012</u>
Signature	Date

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(1) Legal Name	of Inventor: David Gotz	
Signature:		Date:
(2) Legal Name (of Inventor: Adam Perer	
Signature:		Date:
(3) Legal Name of	f Inventor: Zhiyuan Zhang	
Signature:	2020	Date: 10/26/2012