PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3091831

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIMOTHY A. BISHOP	10/27/2014
STEPHEN A. BOXWELL	10/27/2014
BENJAMIN L. BRUMFIELD	10/29/2014
NIRAV P. DESAI	11/03/2014
STANLEY J. VERNIER	10/27/2014

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:	14531183

CORRESPONDENCE DATA

Fax Number: (512)301-6742

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.

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Email: leslie@vl-patents.com

Correspondent Name: IBM CORPORATION- AUSTIN (JVL) C/O LESLIE

Address Line 1: 6123 PEBBLE GARDEN CT. Address Line 4: AUSTIN, TEXAS 78739

ATTORNEY DOCKET NUMBER:	AUS920140392US1	
NAME OF SUBMITTER:	LESLIE A. VAN LEEUWEN, REG. NO. 42,196	
SIGNATURE:	/Leslie A. Van Leeuwen, Reg. No. 42,196/	
DATE SIGNED:	11/03/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 8

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REEL: 034090 FRAME: 0373 503045232

PATENT

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PATENT REEL: 034090 FRAME: 0374

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

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;

known to me to be material to patentability as defined in 37 CFR Section 1.56.

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

Page 1 of 2

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: Timothy A. Bishop SIGNATURE: Line Kelly	DATE: 10/27/2014
Timothy A. Bishop	Attention to the control of the cont
(2) Legal Name of Inventor: Stephen A. Boxwell	
SIGNATURE: Stephen A. Boxwell	DATE:
·	
(3) Legal Name of Inventor: Benjamin L. Brumfi	eld
SIGNATURE:	DATE:
Benjamin L. Brumfield	
(4) Name of Inventor: Nirav P. Desai	
SIGNATURE:	DATE:
Nirav P. Desai	
(5) Name of Inventor: Stanley J. Vernier	
SIGNATURE:	DATE:
Stanley J. Vernier	

<u>DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT</u>

Title of Invention:	Using Synthetic Events to Identify Complex Relation Lookups
As a below named and	undersigned inventor, I hereby declare that:
This declaration is dire	ected to the attached application, or (if following box is checked):
[] United States appli filed on	cation or PCT international application number
The above-identified a	pplication was made or authorized to be made by me.
I believe that I am the application.	original inventor or an original joint inventor of a claimed invention in the
I have reviewed and ur	derstand 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.

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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell 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 hereby 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 related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Page 1 of 2

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(1) Legal Name of Inventor: Timothy A. Bis	hop
SIGNATURE:	DATI::
Timothy A. Bishop	
(2) Legal Name of Inventor: Stephen A. Box	
SIGNATURE: Stephen A. Boxwell	DATE: 10/27/19
oup	
(3) Legal Name of Inventor: Benjamin L. Br	umfield
SIGNATURE:	DATE:
Benjamin L. Brumfield	
(4) Name of Inventor: Nirav P. Desai	
SIGNATURE:	DATE:
Nirav P. Desai	
(5) Name of Inventor: Stanley J. Vernier	
SIGNATURE:	DATE: 10/27/2011
Stapley J. Vernich	1 10/2 //3011

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This declaration is directed to the attached application, or (if following box is checked):
[] United States application or PCT international application number
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.

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(1) Legal Name of	inventor: 11mothy A. Bishop			
SIGNATURE: Timothy A. Bishop		DATE:		
	Inventor: Stephen A. Boxwell			
	inventor. Stephen A. Boxwen			
SIGNATURE: S	tephen A. Boxwell	DATE:		
(3) Legal Name of I	nventor: Benjamin L. Brumfield			
SIGNATURE: 8	ini L. B	DATE:	October 29, 2014	
, and a second	enjamin E. Brushleid			
(4) Name of Invento	or: Nirav P. Desai			
SIGNATURE:		DATE:		
N	irav P. Desai			
(5) Nama of Invento	Stanloy I Varrior			
(3) Name of invento	or: Stanley J. Vernier			
SIGNATURE:	anley I Vernier	DATE:		
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Title of Inventions

IBM DOCKET NUMBER: AUS920140392US1

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(2) Legal Name of Inventor: Stephen A. Boxwell SIGNATURE: Stephen A. Boxwell	DATE:
(3) Legal Name of Inventor: Benjamin L. Brumfield SIGNATURE: Benjamin L. Brumfield	DATE:
(4) Name of Inventor: Nirav P. Desai SIGNATURE: Nirav P. Desai	DATE: 11/3/2014
(5) Name of Inventor: Stanley J. Vernier Stanley J. Vernier	DATE:

Page 2 of 2