

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4047885

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SWAMINATHAN CHANDRASEKARAN	08/24/2016
JOSEPH MAX KAUFMANN	08/08/2016
LAKSHMINARAYANAN KRISHNAMURTHY	08/23/2016
EDWARD EUGENE SEABOLT	08/24/2016
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:	15262751
CORRESPONDENCE DATA	
Fax Number:	(281)754-4914
<i>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.</i>	
Phone:	2817580025
Email:	amalone@deliziolaw.com
Correspondent Name:	ANDREW DELIZIO
Address Line 1:	15201 MASON ROAD
Address Line 2:	SUITE 1000-312
Address Line 4:	CYPRESS, TEXAS 77433
ATTORNEY DOCKET NUMBER:	AUS920160043US1
NAME OF SUBMITTER:	ANGULA MALONE
SIGNATURE:	/Angula Malone/
DATE SIGNED:	09/12/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 8	

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source=AUS920160043US1_Assignment_ToFile#page2.tif
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**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: **SEARCH SPACE REDUCTION FOR KNOWLEDGE GRAPH QUERYING
AND INTERACTIONS**

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 15/262,751 filed on
Sept. 12, 2016.

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;

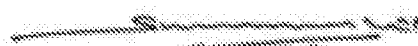
Whereas, International Business Machines Corporation, a corporation of New York having a place of
business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned
inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention 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.

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: **Swaminathan Chandrasekaran**

Signature:  _____ Date 8/24/2016

(2) Legal Name of Inventor: **Joseph Max Kaufmann**

Signature: _____ Date _____

(3) Legal Name of Inventor: **Lakshminarayanan Krishnamurthy**

Signature: _____ Date _____

(4) Legal Name of Inventor: **Edward Eugene Seabolt**

Signature: _____ Date _____

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(1) Legal Name of Inventor: **Swaminathan Chandrasekaran**

Signature: _____ Date _____

(2) Legal Name of Inventor: **Joseph Max Kaufmann**

Signature:  _____ Date 8/8/18

(3) Legal Name of Inventor: **Lakshminarayanan Krishnamurthy**

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Signature: _____

Date _____

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Signature: _____

Date _____

(3) Legal Name of Inventor: **Lakshminarayanan Krishnamurthy**

Signature: K. Lakshminarayanan

Date 8/23/16

(4) Legal Name of Inventor: **Edward Eugene Seabolt**

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Signature: _____ Date _____

(4) Legal Name of Inventor: **Edward Eugene Seabolt**

Signature: Edward Eugene Seabolt Date 8/24/2017