## PATENT ASSIGNMENT

## Electronic Version v1.1

Stylesheet Version v1.1

		NEW ASSIGNMENT		
NATURE OF CONVE	YANCE:	CE: ASSIGNMENT		
CONVEYING PARTY	DATA			
		Name	Execution Date	
Dinesh Garg			03/28/2012	
Monu Kedia			03/28/2012	
Sriram Raghavan				
RECEIVING PARTY D	ΑΤΑ			
Name:	International Bus	ness Machines Corporation		
Street Address:	New Orchard Ro	ad		
City:	Armonk			
State/Country:	NEW YORK			
Postal Code:	10504			
PROPERTY NUMBER	S Total: 1		 S	
Property Ty	уре	Number	13434136	
Application Number:	134	34136	134	
CORRESPONDENCE	DATA			
Fax Number:	(412)741-92	92	\$40.	
Fax Number: Phone:	(412)741-92 4127418400		H \$40.00	
Phone: Email:	4127418400 kdurkin@fer	encelaw.com	C.	
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Phone: Email: <i>Correspondence will E</i> <i>via US Mail.</i> Correspondent Name: Address Line 1:	4127418400 kdurkin@fer be sent to the e-ma	encelaw.com <i>il address first; if that is unsuccessful, it will be s</i> ssociates LLC	C.	
Phone: Email: <i>Correspondence will L</i> <i>via US Mail.</i> Correspondent Name:	4127418400 kdurkin@fer be sent to the e-ma : Ference & A 409 Broad S	encelaw.com <i>il address first; if that is unsuccessful, it will be s</i> ssociates LLC	C.	
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Phone: Email: <i>Correspondence will L</i> <i>via US Mail.</i> Correspondent Name: Address Line 1: Address Line 4:	4127418400 kdurkin@fer be sent to the e-ma : Ference & A 409 Broad S Pittsburgh, I	encelaw.com <i>il address first; if that is unsuccessful, it will be s</i> ssociates LLC treet PENNSYLVANIA 15143	C.	

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IBM DOCKET NUMBER: IN920120011US1 (790.151)

#### ASSIGNMENT.

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

#### Title of the invention: LEARNING REWRITE RULES FOR SEARCH DATABASE SYSTEMS USING QUERY LOGS

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Serial Number: 13/434,136 (insert series code and serial number here if when available)

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, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title. and interest in and to the Investion, 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 Autignment 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 forther identification (including, but not limited to, patent application Serial 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.

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PATENT REEL: 027986 FRAME: 0415

18M DOCKET NUMBER: 1N920120011US1 (790.151)

		Executed by Inventor	<u>1 of 3</u>			
Signature	Dinesh Carg		Date:	March	28,	2012
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		Executed by Inventor	<u>2 of 3</u>			
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		Executed by Inventor	<u>3 of 3</u>			
Signature	Sriram Raghavan		Date:		:	
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## PATENT REEL: 027986 FRAME: 0417

IBM DOCKET NUMBER: IN920120011US1 (790.151)

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IBM DOCKET NUMBER: IN920120011US1 (790.151)

PATENT REEL: 027986 FRAME: 0420

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Signature: Dinesh Garg	Date:
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mature: Sriram Ragbavan	$D_{\text{ste:}} = \frac{29/03/2012}{29/03/2012}$

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