

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4128049

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the SPELLING OF ASSIGNOR NAME, SHAREEF ALSHINNAWI previously recorded on Reel 027862 Frame 0649. Assignor(s) hereby confirms the SPELLING OF ASSIGNOR NAME, SHAREEF ALSHINNAWI.										
<b>CONVEYING PARTY DATA</b>											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>SHAREEF ALSHINNAWI</td><td>03/05/2012</td></tr><tr><td>GARY D. CUDAK</td><td>03/02/2012</td></tr><tr><td>EDWARD S. SUFFERN</td><td>03/02/2012</td></tr><tr><td>JOHN M. WEBER</td><td>03/02/2012</td></tr></tbody></table>	Name	Execution Date	SHAREEF ALSHINNAWI	03/05/2012	GARY D. CUDAK	03/02/2012	EDWARD S. SUFFERN	03/02/2012	JOHN M. WEBER	03/02/2012	
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JOHN M. WEBER	03/02/2012										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	INTERNATIONAL BUSINESS MACHINES CORPORATION										
<b>Street Address:</b>	NEW ORCHARD ROAD										
<b>City:</b>	ARMONK										
<b>State/Country:</b>	NEW YORK										
<b>Postal Code:</b>	10504										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Patent Number:</td><td>9122673</td></tr></tbody></table>	Property Type	Number	Patent Number:	9122673							
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Patent Number:	9122673										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(507)253-2382										
<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>											
<b>Phone:</b>	507-253-2761										
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<b>ATTORNEY DOCKET NUMBER:</b>	RPS920110116US1										
<b>NAME OF SUBMITTER:</b>	ROBERT R. WILLIAMS										
<b>SIGNATURE:</b>	/Robert R. Williams/										
<b>DATE SIGNED:</b>	11/03/2016										
<b>Total Attachments: 7</b>											

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## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
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John M. Weber	03/02/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>International Business Machines Corporation</td> </tr> <tr> <td>Street Address:</td> <td>New Orchard Road</td> </tr> <tr> <td>City:</td> <td>Armonk</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10504</td> </tr> </table>		Name:	International Business Machines Corporation	Street Address:	New Orchard Road	City:	Armonk	State/Country:	NEW YORK	Postal Code:	10504
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Application Number:	13414687										
CORRESPONDENCE DATA											
<p>Fax Number: (561)244-1062</p> <p>Phone: 5619223835</p> <p>Email: sgreenberg@crgolaw.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: CRGO LAW</p> <p>Address Line 1: 950 Peninsula Corporate Circle</p> <p>Address Line 2: Suite 2022</p> <p>Address Line 4: Boca Raton, FLORIDA 33487</p>											
ATTORNEY DOCKET NUMBER:	RPS920110116US1 (146)										
NAME OF SUBMITTER:	Steven M. Greenberg										

CH \$40.00 13414687

**Total Attachments: 5**

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**PATENT**

**REEL: 027862 FRAME: 0650**

**PATENT**

**REEL: 040561 FRAME: 0986**

IBM DOCKET NUMBER: RPS920110116US1 (146)

ASSIGNMENT

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

**DOMAIN SPECIFIC NATURAL LANGUAGE NORMALIZATION**

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 filed on March 7, 2012, and accorded serial number 13/414,687.

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at New Orchard Road, Armonk, New York 10504 (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 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 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.

IBM DOCKET NUMBER: RPS920110116US1 (146)


Executed by Inventor 1 of 4

Signature: Shareef Alshinnawi Date: 3-05-2012  
Shareef Alshinnawi

IBM DOCKET NUMBER: RPS920110116US1 (146)

Executed by Inventor 2 of 4

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Signature:  Date: 3/2/2012  
Gary D. Cudak

IBM DOCKET NUMBER: RPS920110116US1 (146)

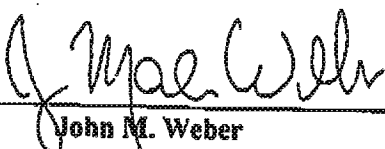
Executed by Inventor 3 of 4

Signature: Edward S. Suffern Date: 3/2/2012  
Edward S. Suffern



IBM DOCKET NUMBER: RPS920110116US1 (146)

Executed by Inventor 4 of 4

Signature:  Date: 3/2/12  
John M. Weber