505229245 12/11/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5276015

IN M	Corrective Assignment to correct the TYPOGRAPHICAL ERROR OF NVENTOR #3'S LAST NAME ON THE ASSIGNMENT (FERRUCI-MISSING A C) previously recorded on Reel 034873 Frame 0389. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
ERIC W. BROWN	12/01/2011
JENNIFER CHU-CARROLL	12/01/2011
DAVID A. FERRUCCI	10/19/2018
ADAM P. LALLY	12/01/2011
JAMES W. MURDOCK IV	12/01/2011
JOHN M. PRAGER	12/01/2011

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State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number		
Patent Number:	9037580		

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SIGNATURE:	/Melissa M. O'Donnell/

PATENT 505229245 REEL: 049042 FRAME: 0011

DATE SIGNED:	12/11/2018
Total Attachments: 9	
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PATENT REEL: 049042 FRAME: 0012

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3209181

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ERIC W. BROWN	12/01/2011
JENNIFER CHU-CARROLL	12/01/2011
DAVID A. FERRUCCI	12/02/2011
ADAM P. LALLY	12/01/2011
JAMES W. MURDOCK IV	12/01/2011
JOHN M. PRAGER	12/01/2011

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PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	13616331		

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NAME OF SUBMITTER:	STEVEN FISCHMAN
SIGNATURE:	/Steven Fischman/
DATE SIGNED:	02/03/2015

Total Attachments: 2

PATENT REEL: 049072 FRAME: 0019

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PATENT REEL: 049042 FRAME: 0094

IBM DOCKET NUMBER: YOR920100547US2

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: PROVIDING ANSWERS TO QUESTIONS USING LOGICAL SYNTHESIS OF CANDIDATE ANSWERS

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: 13/240,108

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 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.

[Inventor Signature Pages Follow]

Page 1 of 7

Executed by Inventor 1 of 6						
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Signature:	(12.5	L	A		Date:	121/11
oignature.	Fric W	. Brown	1			/

Executed by Inventor 2 of 6	
Signature:	Date: 12/1/2011
Genniser Chu-Carroll	,

Executed by Lessater 2 of 6

Name of Street

Denist A. Phirms

David Alleman

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	Executed by Inventor 4 of 6
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Signature: Adm 1 Zally	Date: 12/1/2011
Adam P. Lally	······································

Executed by Inventor 5 of 6								
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Signature: Www Whall The	Date: 12/1/Z0//							
James W Murdock IV								

Executed by Inventor 6 of 6									
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Signature:	John M. Prager			Date	lee	1	1011		

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