504704885 12/27/2017

PATENT ASSIGNMENT COVER SHEET

EPAS ID: PAT4751607

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:

CORRECTIVE ASSIGNMENT

Corrective Assignment to correct the NAME OF INVENTOR DAVID C.
STEINMETZ; UPDATED DOC DATE: 12/26/2017. previously recorded on Reel 039354 Frame 0288. Assignor(s) hereby confirms the INVENTOR NAME OF DAVID C. STEINMETZ IS CORRECT WITH AN UPDATED

DOC DATE OF 12/26/2017...

CONVEYING PARTY DATA

Name	Execution Date
MARIANA ALUPULUI	01/19/2016
ANDREA L. AMES	01/20/2016
BETH ANNE M. COLLOPY	01/19/2016
JOSEPH F. PESOT	01/19/2016
ROBERT PIERCE	01/20/2016
DAVID C. STEINMETZ	12/26/2017

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:	15229361

CORRESPONDENCE DATA

Fax Number: (404)607-9981

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.

Phone: 4046079991

Email: usptopatentmail@cantorcolburn.com

Correspondent Name: CANTOR COLBURN LLP

Address Line 1: 20 CHURCH STREET, 22ND FLOOR
Address Line 4: HARTFORD, CONNECTICUT 06103-3207

ATTORNEY DOCKET NUMBER: POU920150450US2

NAME OF SUBMITTER: JEFFREY L. WATERS

SIGNATURE: /jeffreylwaters53749/

PATENT 504704885 REEL: 044964 FRAME: 0508

DATE SIGNED:	12/27/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 21	
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PATENT REEL: 044964 FRAME: 0509

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3994862

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARIANA ALUPULUI	01/19/2016
ANDREA L. AMES	01/20/2016
BETH ANNE M. COLLOPY	01/19/2016
JOSEPH F. PESOT	01/19/2016
ROBERT PIERCE	01/20/2016
DAVID C. STEINMENTZ STEIN METZ 12/2017	01/20/2016

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usptopatentmail@cantorcolburn.com

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HARTFORD, CONNECTICUT 06103-3207

ATTORNEY DOCKET NUMBER:	POU920150450US2
NAME OF SUBMITTER:	JEFFREY L. WATERS
SIGNATURE:	/jeffreylwaters53749/
DATE SIGNED:	08/05/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 044964 FRAME: 0510

Title of Invention: QUESTION-ANSWERING SYSTEM

As a below named and undersigned 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
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, 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;

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,

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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 Inve	entor: Mariana Alupului	
Signature:	Alugh	Date: 01/19/02/6

(2) Legal Name of Inve	entor: Andrea L. Ames	
Signature:		Date:
en e		* * * * * * * * * * * * * * * * * * *
(3) Legal Name of Inv	entor: Beth Anne M. Collopy	-
-	to the second of	
Signature:		Date:
(4) Legal Name of Ir	eventor: Joseph F. Pesot	en e
Signature:		Date:

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

Page 2 of 3

REEL: 044964 FRAME: 0512

(5) Legal Name of Inventor: Robert Pierce		
Signature:	Date:	
(6) Legal Name of Inventor: David C. Steinmentz		
Signature	Date:	

Title of Invention: QUESTION-ANSWERING SYSTEM

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(1) Legal Name of Inventor: Mariana Alupului	
Signature:	Date:
(2) Legal Name of Inventor: Andrea L. Ames	
Signature: <u>Andra A Ars</u>	Date: 20 JAN 2011
(3) Legal Name of Inventor: Beth Anne M. Collopy	
Signature:	Date:
(4) Legal Name of Inventor: Joseph F. Pesot	
Signature:	Date:

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: Robert Pierce	
Signature:	Date:
(6) Legal Name of Inventor: David C. Steinmentz	
Signature:	Date:

Title of Invention: QUESTION-ANSWERING SYSTEM

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(1) Leg	al Name of Inventor: Mariana Alupului	
Sig	nature:	Date:
(2) Leg	gal Name of Inventor: Andrea L. Ames	
Sig	nature:	Date:
(3) Le	gal Name of Inventor: Beth Anne M. Collopy	
Sig	naturo: Reth. Ca. M. Collopy	Date: Jan. 19,201(
(4) Le	egal Name of Inventor: Joseph F. Pesot	
Sig	nature:	Date:
	IIF MORE INVENTORS, ADDITIONAL SIGNATURE PA	GE(S) FOLLOWS]

Legal Name of Inventor: Robert Pierce		
Signature:	Date:	
(6) Legal Name of Inventor: David C. Steinmentz		
Signature:	Date:	

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(1)	(1) Legal Name of Inventor: Mariana Alupului	
	Signature:	Date:
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	Signature:	Date:
(3)	Legal Name of Inventor: Beth Anne M. Collopy	
	Signature:	_Date:
(4)	Legal Name of Inventor: Joseph F. Peso	Date: 1/19/16

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: Robert Pierce	
Signature:	Date:
(6) Legal Name of Inventor: David C. Steinmentz	
Signature:	Date:

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(1) Legal Name of Inventor: Mariana A	Jupului
Signature:	Date:
(2) Legal Name of Inventor: Andrea L.	Ames
Signature:	Date:
(3) Legal Name of Inventor: Beth Anne	M. Collopy
Signature:	Date:
(4) Legal Name of Inventor: Joseph I	F. Pesot
Signature:	Date:

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: Robert Pierce	
Signature:	Date: 1/20/16
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Signature:	Date:
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Signature:	Date:
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Signature:	Date:

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(5) Legal Name of Inventor: Robert Pierce	
Signature:	Date:
(6) Legal Name of Inventor: David C. Steinmetz	
Signature: David (Discourse)	Date: 12/26/2017

Page 3 of 3

PATENT REEL: 044964 FRAME: 0528