505105763 09/21/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5152522

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THE NAMES OF THE FIRST AND FIFTH ASSIGNORS previously recorded on Reel 039317 Frame 0595. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
ROGERIO S. FERIS	07/25/2016
JING WANG	07/25/2016
MAJA VUKOVIC	08/02/2016
YU CHENG	07/24/2016
CLIFFORD A. PICKOVER	08/01/2016

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:	15226339

CORRESPONDENCE DATA

Fax Number: (202)331-3838

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: 202-331-8777

Email:docketing@cahnsamuels.comCorrespondent Name:CAHN & SAMUELS, LLPAddress Line 1:1100 17TH STREET N.W.

Address Line 2: SUITE 401

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	YOR920160394US1
NAME OF SUBMITTER:	JONATHAN W. PARTHUM
SIGNATURE:	/Jonathan W. Parthum/
DATE SIGNED:	09/21/2018

PATENT 505105763 REEL: 047121 FRAME: 0809

Total Attachments: 9 source=YOR920160394US1_NoticeofRecordation_8-3-16#page1.tif source=YOR920160394US1_NoticeofRecordation_8-3-16#page2.tif source=YOR920160394US1_NoticeofRecordation_8-3-16#page3.tif source=YOR920160394US1_FiledAssignDec#page1.tif source=YOR920160394US1_FiledAssignDec#page2.tif

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source=YOR920160394US1_FiledAssignDec#page3.tif

source=YOR920160394US1 FiledAssignDec#page6.tif

PATENT REEL: 047121 FRAME: 0810



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 3, 2016

PTAS

CAHN & SAMUELS, LLP 1100 17TH STREET, NW SUITE 401 WASHINGTON, DC 20036 503942473

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/02/2016 REEL/FRAME: 039317/0595

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: YOR920160394US1

ASSIGNOR:

FERIS, ROGERIO DOC DATE: 07/25/2016

ASSIGNOR:

WANG, JING DOC DATE: 07/25/2016

ASSIGNOR:

VUKOVIC, MAJA DOC DATE: 08/02/2016

ASSIGNOR:

CHENG, YU DOC DATE: 07/24/2016

ASSIGNOR:

PICKOVER, CLIFFORD DOC DATE: 08/01/2016

ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES
CORPORATION
NEW ORCHARD RD
ARMONK, NEW YORK 10504

 APPLICATION NUMBER: 15226339 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: FINDING MISSING PERSONS BY LEARNING FEATURES FOR PERSON

ATTRIBUTE CLASSIFICATION BASED ON DEEP LEARNING

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

PATENT REEL: 047121 FRAME: 0812

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3989129

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROGERIO FERIS	07/25/2016
JING WANG	07/25/2016
MAJA VUKOVIC	08/02/2016
YU CHENG	07/24/2016
CLIFFORD PICKOVER	08/01/2016

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Street Address:	NEW ORCHARD RD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15226339	

CORRESPONDENCE DATA

Fax Number:

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: 202-331-8777

Email: duane.moore@cahnsamuels.com

Correspondent Name: CAHN & SAMUELS, LLP Address Line 1: 1100 17TH STREET, NW

Address Line 2: SUITE 401

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	YOR920160394US1
NAME OF SUBMITTER: DUANE MOORE	
SIGNATURE:	/DUANE MOORE/
DATE SIGNED:	08/02/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT REEL: 047121 FRAME: 0813

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: FINDING MISSING PERSONS BY LEARNING FEATURES FOR PERSON ATTRIBUTE CLASSIFICATION BASED ON DEEP LEARNING

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 C.F.R. § 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. whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Page 1 of 2

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, 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: ROGERIO S. FERIS	
Signature: Joseph Jan	Date: <u>07/25/20</u>
(2) Legal Name of Inventor: JING WANG	
Signature:	Date:
(3) Legal Name of Inventor: MAJA VUKOVIC	
Signature:	Date:
(4) Legal Name of Inventor: YU CHENG	
Signature:	Date:
(5) Legal Name of Inventor: CLIFFORD A. PICKOVER	
Signature:	Date:

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, 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.

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(1)	Legal Name of Inventor: ROGERIO S. FERIS	
Š	Signature:	Date:
(2)	Legal Name of Inventor: JING WANG	
Š	Signature: Jers Wans	_Date:07/25/2016
(3)	Legal Name of Inventor: MAJA VUKOVIC	
6	Signature:	Date:
(4)	Legal Name of Inventor: YU CHENG	
6	Signature:	Date:
(5)	Legal Name of Inventor: CLIFFORD A. PICKOVER	
ģ	Signature:	Date:

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(1)	Legal Name of Inventor: ROGERIO S	S. FERIS	
	Signature:		Date:
(2)	Legal Name of Inventor: JING WANG	G	
	Signature:		Date:
(3)	Legal Name of Inventor: MAJA VUK	OVIC	
	Signature:		Date:08/02/2016
(4)	Legal Name of Inventor: YU CHENG	:	
	Signature:		Date:
(5)	Legal Name of Inventor: CLIFFORD	A. PICKOVER	
	Signature:		Date:

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(1)	Legal Name of Inventor: ROGERIO S. FERIS	
	Signature:	_ Date:
(2)	Legal Name of Inventor: JING WANG	
	Signature:	Date:
(3)	Legal Name of Inventor: MAJA VUKOVIC	
	Signature:	Date:
(4)	Legal Name of Inventor: YU CHENG	
	Signature: Yn Heng	Date: 07/24/2016
(5)	Legal Name of Inventor: CLIFFORD A. PICKOVER	
	Signature:	Date:

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, 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.

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	Signature:	Date:
(2)	Legal Name of Inventor: JING WANG	
	Signature:	Date:
(3)	Legal Name of Inventor: MAJA VUKOVIC	
	Signature:	Date:
(4)	Legal Name of Inventor: YU CHENG	
	Signature:	Date:
(5)	Legal Name of Inventor: CLIFFORD A. PICKOVER	
	Signature: Word a. Prekover	Date: 8-1-16