PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4977746

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CASSIUS D'HELON	05/23/2018
JAE-WOOK AHN	05/24/2018
NIRMAL K. MUKHI	05/24/2018
VINAY KUMAR REDDY KASIREDDY	05/23/2018

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:	15989130

CORRESPONDENCE DATA

Fax Number: (972)294-3784

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.

972-839-0027 Phone:

Email: uspto@garglaw.com

IBM YOR IPLAW (GLF) C/O GARG LAW FIRM, P **Correspondent Name:**

4521 COPPER MOUNTAIN LANE Address Line 1: Address Line 4: RICHARDSON, TEXAS 75082

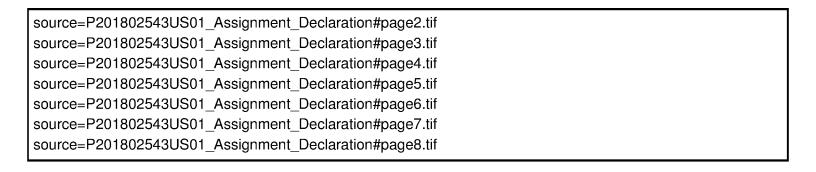
ATTORNEY DOCKET NUMBER:	P201802543US01
NAME OF SUBMITTER:	DIMPLE PANDYA
SIGNATURE:	/Dimple Pandya/
DATE SIGNED:	05/24/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 8

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PATENT REEL: 045899 FRAME: 0502

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PATENT REEL: 045899 FRAME: 0503

IBM DOCKET NUMBER: P201802543US01

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

FEEDBACK SYSTEM AND METHOD FOR IMPROVING PERFORMANCE OF DIALOGUE-BASED TUTORS

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, the undersigned inventor(s) has/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, 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 or has sold, assigns or has assigned, and otherwise transfers or has transferred 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.

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: CASSIUS D'HELON		
	Signature:	_ Date:	5/23/2018
(2)	Legal Name of Inventor: JAE-WOOK AHN		
	Signature:	Date:	
(3)	Legal Name of Inventor: NIRMAL K. MUKHI		
	Signature:	_ Date:	
(4)	Legal Name of Inventor: VINAY KUMAR REDDY KASIREDDY		
	Cignoturo	Data	

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(1) Legal Name of Inventor: CASSIUS D'HELON

(-)	Edgar value of inventor. Crassics & Indian	
	Signature:	Date:
(2)	Legal Name of Inventor: JAE-WOOK AHN	
	Signature: Recurrole Alu	
(3)	Legal Name of Inventor: NIRMAL K. MUKHI	
	Signature:	Date:
(4)	Legal Name of Inventor: VINAY KUMAR REDDY KASIREDDY	
	Signature	Date

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As a below named 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.
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Sì	gnature:	Date:
(2) L	egal Name of Inventor: JAE-WOOK AHN	
Sì	gnature:	Date:
(3) L	egal Name of Inventor: NIRMAL K. MUKHI	
Si	gnature: NKWWKW	Date: 05/24/18
(4) L	egal Name of Inventor: VINAY KUMAR REDDY KASIREDDY	
Si	ignature:	Date:

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	Signature:	Date:	oooning to the second s	· · · · · · · · · · · · · · · · · · ·
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	Signature:	Date:		**********
(3)	Legal Name of Inventor: NIRMAL K. MUKHI			
	Signature:	Date:		***********
(4)	Legal Name of Inventor: VINAY KUMAR REDDY KASIREDDY			2018
	Signature:	Date:	A** 33	on the second se

Page 2 of 2