

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4365494

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHAZIA AFZAL	04/01/2017
JAE-WOOK AHN	04/06/2017
MARIA D. CHANG	04/05/2017
RENUKA R. SINDHGATTA	04/04/2017
PATRICK D. WATSON	04/05/2017
<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>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15486062
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	(646)820-4453
<b>Email:</b>	DOCKETING@INTELLETEK.COM
<b>Correspondent Name:</b>	INTELLETEK LAW GROUP, PLLC GABRIEL DANIE
<b>Address Line 1:</b>	800 2ND AVENUE
<b>Address Line 2:</b>	SUITE 804
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10017
<b>ATTORNEY DOCKET NUMBER:</b>	YOR920161863US1
<b>NAME OF SUBMITTER:</b>	SHERIE L. DODSON
<b>SIGNATURE:</b>	/Sherie L. Dodson/
<b>DATE SIGNED:</b>	04/12/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 14**

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**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: **PROVIDING PARTIAL ANSWERS TO USERS**

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

\_\_\_\_\_ 15/486,062 \_\_\_\_\_ filed on \_\_\_ April 12, 2017 \_\_\_\_\_

*Assignors hereby authorize and request ASSIGNEE's legal  
representatives of Inteltek Law Group, PLLC, 800 2<sup>nd</sup> Ave. Suite 804,  
New York, NY 10017, to insert in the paragraph above, the  
serial number and filing date of the patent application when known.*

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;

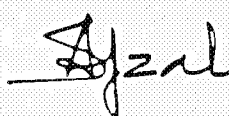
WHEREAS, **International Business Machines Corporation** (herein referred to as the  
"ASSIGNEE"), a corporation of New York having a place of business at **Armonk, New York**,  
desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and  
interest in and to the 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.

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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.

Legal Name of Inventor: <b>Shazia Afzal</b>	
Inventor's Signature: 	Date: <b>1 - April - 2017</b>
Legal Name of Inventor: <b>Jae-Wook Ahn</b>	
Inventor's Signature:	Date:
Legal Name of Inventor: <b>Maria D. Chang</b>	
Inventor's Signature:	Date:
Legal Name of Inventor: <b>Renuka R. Sindhgatta</b>	
Inventor's Signature:	Date:

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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

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<i>Inventor's Signature:</i>	<i>Date:</i>
Legal Name of Inventor: <b>Jae-Wook Ahn</b>	
<i>Inventor's Signature:</i> 	<i>Date:</i> 4/6/2017
Legal Name of Inventor: <b>Maria D. Chang</b>	
<i>Inventor's Signature:</i>	<i>Date:</i>
Legal Name of Inventor: <b>Renuka R. Sindhgatta</b>	
<i>Inventor's Signature:</i>	<i>Date:</i>

Legal Name of Inventor: <b>Patrick D. Watson</b>	
<i>Inventor's Signature:</i>	<i>Date:</i>

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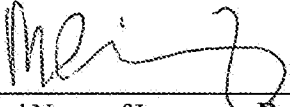
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<i>Inventor's Signature:</i>	<i>Date:</i>
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<i>Inventor's Signature:</i> 	<i>Date:</i> 4/5/2017
Legal Name of Inventor: <b>Renuka R. Sindhgatta</b>	
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<i>Inventor's Signature:</i> 	<i>Date:</i> 4 - April - 2017.

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<i>Inventor's Signature:</i>	<i>Date:</i>
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Legal Name of Inventor: <b>Patrick D. Watson</b>	
Inventor's Signature: 	Date: 04/05/2017