07/17/2018 505007412

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5054160

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PATRICK WATSON	07/13/2018
TENGFEI MA	07/13/2018
MARIA CHANG	07/13/2018
JAE-WOOK AHN	07/17/2018
RAVI TEJWANI	07/16/2018
ALDIS SIPOLINS	07/14/2018

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:	16037542

CORRESPONDENCE DATA

Fax Number: (972)385-7766

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.

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DUKE W. YEE **Correspondent Name:**

Address Line 1: YEE & ASSOCIATES, P.C.

Address Line 2: P.O. BOX 802333

DALLAS, TEXAS 75380 Address Line 4:

ATTORNEY DOCKET NUMBER:	P201704822US01
NAME OF SUBMITTER:	DUKE W. YEE
SIGNATURE:	/Duke W. Yee/
DATE SIGNED:	07/17/2018

Total Attachments: 12 source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page1.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page2.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page3.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page4.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page5.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page6.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page7.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page8.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page9.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page10.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page10.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page11.tif source=P201704822US01_ExecutedAssignmentDeclaration_07-17-18 (ID 835148)#page11.tif

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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

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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, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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(1) Legal Name of Inventor: Patrick Watson		
Signature:	Date:7/13/2018	_
(2) Legal Name of Inventor: Tengfei Ma		
Signature:	Date:	
(3) Legal Name of Inventor: Maria Chang		
Signature:	Date:	
(4) Legal Name of Inventor: Jae-Wook Ahn		
Signature:	Date:	
(5) Legal Name of Inventor: Ravi Tejwani		
Signature:	Date:	
(6) Legal Name of Inventor: Aldis Sipolins		
Sionature:	Date:	

Page 2 of 2

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Signature:	Date:	
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Signature: Tengfev Ma	Date: 07/	13/2018
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Signature	Date	
(4) Legal Name of Inventor: Jae-Wook Ahn		
Signature	Date	
(5) Legal Name of Inventor: Ravi Tejwani		
Signature:	Date:	
(6) Legal Name of Inventor: Aldis Sipolins		
Signature	Date	

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Signature:	Date:
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Signature: M. Chang	Date: July 13, 2018
(4) Legal Name of Inventor: Jae-Wook Ahn	
Signature:	Date:
(5) Legal Name of Inventor: Ravi Tejwani	
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Signature: Prewark Alu	Date:	2018/7/17
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Signature:		
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IBM DOCKET NUMBER: P2017048221 S01

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Page 1 of 2

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Signature	Date
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Signature	Dur
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Signature	France
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Signature	Pro-
(5) Legal Name of Inventor. Ravi Tejwani	
Signature 4444	ru <u>series</u>
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Name of Inventor Jac-Work Abn	
	. Pac
Name of Inventor Ravi Tejwani	
	- Par
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Page 2 of 2