505540143 06/24/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5586940

		Ν	IEW ASSIGNMENT			
NATURE OF CONVEYAN	ICE:	A	ASSIGNMENT			
CONVEYING PARTY DA	ΑΤΑ	·				
		N	ame			Execution Date
YANYAN HAN				04/18/2018		
XIAOYANG GAO				04/10/2018		
WILLIAM S. SPANGLER				04/19/2018		
SHENG HUA BAO				04/18/2018		
BRIAN S. DREHER				04/23/2018		
	ТА					
Name:	1	ational B	usiness Machines Co	rporation		
Street Address:	New O	Drchard F	Road			
City:	Armon	Armonk				
State/Country:	NEW 1	NEW YORK				
Postal Code:	10504					
PROPERTY NUMBERS	Total: 1	1	Number		1	
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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: SEARCHING FOR AND DETERMINING RELATIONSHIPS AMONG ENTITIES

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):

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

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I bereby 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: Yanyan Han

<u> Yello</u> Signature:

Date: 04/18/2018

(2) Legal Name of Inventor: Xlaoyang Gao

Signature:		Date:
(3) Legal Name of Inventor: William S. Sp	angler	
Signature:		Date:
(4) Legal Name of Inventor: Sheng Hua B	20	
Signature:		Date:
(5) Legal Name of Inventor. Brian S. Dre	her	
Signature:		Date:
Signature	Page 2 of 2	PATENT

REEL: 049565 FRAME: 0279

Title of Invention: SEARCHING FOR AND DETERMINING RELATIONSHIPS AMONG ENTITIES

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(1) Legal Name of Inventor: Yanyan Han

Signature: Date:	
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(2) Legal Name of Inventor: Xisoyang Gao

Xiaoyang Gao Signature:

(3) Legal Name of Inventor: William S. Spangler

Signature: _____ Date: _____

(4) Legal Name of Inventor: Sheng Hua Bao

Signature:_____Date:_____

(5) Legal Name of Inventor: Brian S. Dreher

Signature:

Date:

Apr. 10, 2018

Date:

Page 2 of 2

Title of Invention: SEARCHING FOR AND DETERMINING RELATIONSHIPS AMONG ENTITIES

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(1) Legal Name of Inventor: Yanyan Han

(2) Legal Name of Inventor: Xisovang Gao Date: Signature:

Signature: _____ Date: _____

(3) Legal Name of Inventor: William S. Spangler

le for _____Date:__ 4 / 14 / 14 Signature

(4) Legal Name of Inventor: Sheng Hua Bao

Signature: _____ Date: _____

(5) Legal Name of Inventor: Brian S. Dreher

Signature: Date:

Page 2 of 2

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(1) Legal Name of Inventor: Yanyan Han

Signature:	Date:
(2) Legal Name of Inventor: Xiaoyang Gao	
Signature:	Date:
(3) Legal Name of Inventor: William S. Spangler	
Signature:	Date:
(4) Legal Name of Inventor: Sheng Has Bao	
Signature	Date: 4, 18, 2018
(5) Legal Name of Inventor: Brian S. Dreher	
Signature:	Date:
Page 2 of 2	2

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Signature:	Date:
(5) Legal Name of Inventor: Brian S. Breher	
Signature <u>224205</u> . Ashee	Date: <u>4/23/201</u> B

Page 2 of 2

RECORDED: 06/24/2019