PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6535020

NATURE OF CONVEYANCE: Corrective Assignment to correct the SPELLING OF THE FIRST NAME OF THE FIRST LISTED INVENTOR FROM "RAMI" TO "RAHAMIM" previously recorded on Reel 046947 Frame 0596. Assignor(s) hereby confirms the NOW, THEREFORE, FOR GOOD AND VALUABLE	SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
CONSIDERATION, THE RECEIPT AND SUFFICIENCY THEREOF		OF THE FIRST LISTED INVENTOR FROM "RAMI" TO "RAHAMIM" previously recorded on Reel 046947 Frame 0596. Assignor(s) hereby

CONVEYING PARTY DATA

Name	Execution Date
RAHAMIM KATAN	09/21/2018
MICHAEL J.A. JOHNSON	09/18/2018
WILLIAM ALEXANDER	09/18/2018

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:	16139207

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.

Email: endiplaw@us.ibm.com
Correspondent Name: IBM CORPORATION
Address Line 1: IPLAW IQ0, B/256-3
Address Line 2: 1701 NORTH STREET

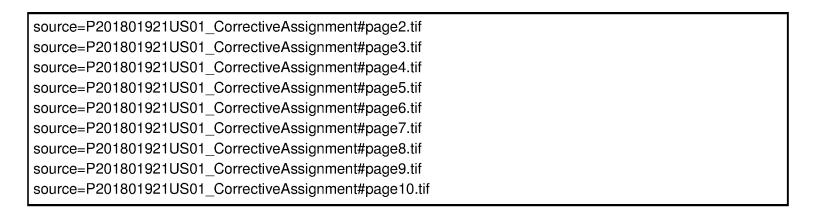
Address Line 4: ENDICOTT, NEW YORK 13760

ATTORNEY DOCKET NUMBER:	P201801921US01	
NAME OF SUBMITTER:	ROBERT A. VOIGT, JR.	
SIGNATURE: /Robert A. Voigt, Jr./		
DATE SIGNED:	02/04/2021	

Total Attachments: 10

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PATENT REEL: 055223 FRAME: 0305



PATENT REEL: 055223 FRAME: 0306

JBM DOCKET NUMBER: P201801921US61

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

Title of Investion LOCATING BUSINESS RULES IN APPLICATION SOURCE CODE

As a below named and undersigned inventor, I lieraby declare that:
This declaration is directed to the attached application, or (if following box is checked):
United States application or PCT international application matabet
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 cloimed invention in the opplication.
have reviewed and understand the contems of the application, including the claims.
um aware of the duty to disclose to the United States Placot and Trademark Office all information themselves to me to be material to paternability as defined in 37 C.F.R. § 1.56.
Whereas, I ("ASSIGNOR") have uside certain inventions, improvements, and discoveries (herein referres to so the "Invention") disclosed in the above-identified patent application and further identified by the

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of humans at Armank, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire workinside right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

16M Docket Number provided above in the header of this document;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby naknowledged. I hereby sell or have sold, assign or have assigned, and eitherwise transfer or have transferred to the ASSKINEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the invention, the above-identified United States parent 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, confinantions, reliance, recraminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patems. In addition, I bereby authorize and request the Director of the United States Patent and Frademark Office to Issue any United States Patent, and foreign patent authorities to issue any foreign parent, granted for the invention, to the ASSKINEE, its successors, legal representatives, and assigns, my coline worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSKINEE, has successors, logal representatives, and assigns to the fell and of the terms for which any and all such parents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment for been made; and Lagree to execute any and all documents and instruments and perform all lawful acts remonibly related to recording this Assignment or perfecting sittle to the Invention and all related patents and applications, is the ASSIGNEE, its successors, legal representatives, and assigns. whosever consected by the ASSIGNEE, his accommon, legal representatives, or energies.

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IBM DOOCKET NUMBER; P28189921US81

I acknowledge my prior and ongoing obligations in sell, assign, and transfer my rights under this

Assignment to the ASSIGNEE and an unaware of any reason why I may not have the fall and

unercurabored 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 successora 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 destrable 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 of
federal court sited in New York.

Thereby acknowledge that any willful false statement made in this declaration is punishable under 18 11.S.C. § 1661 by fine or imprisonment of not more than five (5) years, or bush.

Right ware			Owe	9,21,20
(8) Legal Name of h	Rahamim	RK F	bruary 4	th, 2021
Signature			Date in	minimani kani mimp
iz) Legal Name of h Stematore	rventor Michael I. A.	Nihasim	Date	
	wester William Alexa	eniges.		

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IBM DOCKET NUMBER: P201801921US01

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: LOCATING BUSINESS RULES IN APPLICATION SOURCE CODE

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

IBM DOCKET NUMBER: P201801921US01

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.

Signature:	WHICH THE PROPERTY OF THE PROP	Date:
(1) Legal Na	une of Inventor: Rami Katan	
Signature:	MkeJohnson	Date: 18.9.18
(2) Legal Na	me of Inventor: Michael J. A. Johnson	
Signature:		Date:

(3) Legal Name of Inventor: William Alexander

Page 2 of 2

IBM DOCKET NUMBER: P201801921US01

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: LOCATING BUSINESS RULES IN APPLICATION SOURCE CODE

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.			
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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

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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.

Signature:		Date:	
(1) Legal Name of Inventor: Rami	Katan		
			,
Signature:		Date:	φοιούκορουμουσούμος, οργασικούς συστ
(2) Legal Name of Inventor: Micha	el J. A. Johnson		
Signature: <i>William</i>	alexander		8-18

(3) Legal Name of Inventor: William Alexander

Page 2 of 2

505107424 09/24/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5154184

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAMI KATAN	09/21/2018
MICHAEL J. A. JOHNSON	09/18/2018
WILLIAM ALEXANDER	09/18/2018

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:	16139207

CORRESPONDENCE DATA

Fax Number: (512)370-2850

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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Email: rvoigt@winstead.com

Correspondent Name: IBM CORP. (WSM) C/O WINSTEAD P.C.

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Address Line 4: DALLAS, TEXAS 75313

ATTORNEY DOCKET NUMBER:	P201801921US01
NAME OF SUBMITTER:	ROBERT A. VOIGT, JR.
SIGNATURE:	/Robert A. Voigt, Jr./
DATE SIGNED:	09/24/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

source=P201801921US01_IBMAssignmentDeclaration#page1.tif source=P201801921US01_IBMAssignmentDeclaration#page2.tif source=P201801921US01_IBMAssignmentDeclaration#page3.tif

PATENT
RECORDED: 02/04/2021 REEL: 055223 FRAME: 0313