505351933 02/28/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5398718

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DILIP KANDLUR	02/08/2019
DOUGLAS M. FREIMUTH	02/08/2019
THAI FRANCK LE	02/20/2019
ERICH NAHUM	02/04/2019
JORGE JOSE ORTIZ	02/27/2019

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:	16288869

CORRESPONDENCE DATA

Fax Number: (516)742-4366

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.

Phone: 516-742-4343
Email: mgroth@ssmp.com

Correspondent Name: SCULLY, SCOTT, MURPHY & PRESSER, P.C.

Address Line 1: 400 GARDEN CITY PLAZA

Address Line 2: SUITE 300

Address Line 4: GARDEN CITY, NEW YORK 11530

ATTORNEY DOCKET NUMBER:	P201705804US01 (36592)
NAME OF SUBMITTER:	EUNHEE PARK
SIGNATURE:	/Eunhee Park/
DATE SIGNED:	02/28/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 505351933 REEL: 048469 FRAME: 0400

Total Attachments: 15 source=P201705804US01_Assign-Dec#page1.tif source=P201705804US01 Assign-Dec#page2.tif source=P201705804US01_Assign-Dec#page3.tif source=P201705804US01_Assign-Dec#page4.tif source=P201705804US01_Assign-Dec#page5.tif source=P201705804US01_Assign-Dec#page6.tif source=P201705804US01_Assign-Dec#page7.tif source=P201705804US01_Assign-Dec#page8.tif source=P201705804US01 Assign-Dec#page9.tif source=P201705804US01_Assign-Dec#page10.tif source=P201705804US01_Assign-Dec#page11.tif source=P201705804US01_Assign-Dec#page12.tif source=P201705804US01 Assign-Dec#page13.tif source=P201705804US01_Assign-Dec#page14.tif source=P201705804US01_Assign-Dec#page15.tif

Title of Invention: NAME BASED INTERNET OF THINGS (IOT) DATA DISCOVERY

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	_filed on
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 applicat	tion.
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 know to be material to patentability as defined in 37 C.F.R. § 1.56.	/n to me
Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referre the "Invention") disclosed in the above-identified patent application and further identified by the IBM Do Number provided above in the header of this document;	
Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation (herein referred 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 a applications and patents directed thereto;	he
Now therefore for good and valuable consideration the receipt and sufficiency thereof being hereby	

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 alllawful 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.

Thereby 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: Wandler	Date: 62/08/2019
(1) Legal Name of Inventor: Dilip Dinkar Kandlur	
Signature	Date:
(2) Legal Name of Inventor: Douglas M. Freimuth	
Signature	Date:
(3) Legal Name of Inventor. That Franck Le	
Signature	Dates

(4) Legal Name of Inventor. Erich Nahum

Signature:	Date:

(5) Legal Name of Inventor: **Jorge Jose Ortiz**

3 of 3

Title of Invention: NAME BASED INTERNET OF THINGS (IOT) DATA DISCOVERY

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Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to a 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 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 pate 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	0

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 alllawful 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, or assigns.

1 of 3

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Signature:	Date:
(1) Legal Name of Inventor: Dilip Dinkar Kandlur	
Signature: Dougles M Insmeth	
(2) Legal Name of Inventor: Douglas M. Freimuth	
er en	
Signature:	Date:
(3) Legal Name of Inventor: Thai Franck Le	
*	
Signature:	Date:
163 Y and Name of Young ton Twick Notes	

(4) Legal Name of Inventor: Erich Nahum

IBM DOCKET NUMBER: P201705804US0

Signature:Date:

(5) Legal Name of Inventor: Jorge Jose Ortiz

3 of 3

Title of Invention: NAME BASED INTERNET OF THINGS (IOT) DATA DISCOVERY

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Signature:	Date:
(1) Legal Name of Inventor: Dilip Dinkar Kandlur	
Signature:	Date:
(2) Legal Name of Inventor: Douglas M. Freimuth	
Franck Le Signature:	_{Date:} _02/20/2019
(3) Legal Name of Inventor: Thai Franck Le	
Signature:	Date:
Signature: (4) Legal Name of Inventor: Erich Nahum	Date:

2 of 3

Signature:	Date:
-	

(5) Legal Name of Inventor: **Jorge Jose Ortiz**

3 of 3

IBM DOCKET NUMBER: P201705804US01

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: NAME BASED INTERNET OF THINGS (IOT) DATA DISCOVERY

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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.	e F
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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.

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Signature: W Mile	Date:Z 4 4

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Signature:	Date:	
(4) Legal Name of Inventor: Erich Nahum		

2 of 3

Signature: Jorge Jose Only Date: 2/27/19

(5) Legal Name of Inventor: Jorge Jose Ortiz

3 of 3

PATENT REEL: 048469 FRAME: 0416

RECORDED: 02/28/2019