## 505619972 08/13/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DHARMENDRA MISRA	08/10/2019
SEETHARAMAN SANKARA RAMASUBRAMANIAN	08/10/2019
ABHINAV AGGARWAL	08/10/2019

### **RECEIVING PARTY DATA**

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### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16539739

### **CORRESPONDENCE DATA**

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	P201901311US01	
NAME OF SUBMITTER:	SABRINA ERNST	
SIGNATURE:	/Sabrina Ernst/	
DATE SIGNED:	08/13/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

## **Total Attachments: 3**

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PATENT 505619972 REEL: 050041 FRAME: 0691

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PATENT REEL: 050041 FRAME: 0692

IBM DOCKET NUMBER: P201901311US01

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

## STORAGE AND RETENTION INTELLIGENCE IN MOBILE NETWORKS

As a below named 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 file	d on
The above-identified application was made or authorized to be made by me. It 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 Partent and Trademark Office all information known to be material to patentability as defined in 37 CFR Section 1.56.  Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (here referred to as the "invention") disclosed in the above-identified patent application and further identified by the Docket Number provided above in the header of this document;  Whereas, International Business Machines Corporation, a corporation of New York having a place of busines Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to IBM, the 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, each undersigned inventor ("ASSIGNE") hereby sells or has sold, assigns or has assigned, a otherwise transfers or has transferred to IBM (the "ASSIGNE") hereby sells or has sold, assigns or has assigned, a otherwise transfers or has transferred to IBM (the "ASSIGNE") hereby sells or has sold, assigns or has assigned, a otherwise transfers or has transferred to IBM (the "ASSIGNE") hereby sells or has sold, assigns or has assigned, a otherwise transfers or has transferred to IBM (the "ASSIGNE") hereby sells or has sold, assigns or has assigned, a otherwise transfers or has transferred to IBM (the "Assigned has been been advised by the IBM (the "Assigned has been been advised by the IBM (the "Assigned has hereby applications and patents for the Invention may be applied for a granted therefor in the United States paten	in e IBM s at o grant and signs, or f, and och Office rest in od of d cute ament ights ed right t I, its on of eputes
Signature: Date: 10 August 201	
Signature: Date: 10 August 201	9_

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I am aware of the duty to disclose to the United States Patent and Trademark Office all information be material to patentability as defined in 37 CFR Section 1.56.	known to me to
Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discovereferred to as the "Invention") disclosed in the above-identified patent application and further identified Docket Number provided above in the header of this document;	
Whereas, International Business Machines Corporation, a corporation of New York having a place of Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all applications and patents directed thereto;	desires to grant
Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereb acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has at otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representative the entire worldwide right, title, and interest in and to the Invention, the above-identified United State application, and any and all other patent applications and patents for the Invention which may be application, and any and all other patent applications and patents for the Invention which may be applications, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extension all rights of priority resulting from the filing of such applications and granting of such patents. In adundersigned inventor hereby authorizes and requests the Director of the United States Patent and Trate to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the terms for which any and all such patents may be granted, as fully and entirely as would have bee enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agree any and all documents and instruments and perform all lawful acts reasonably related to recording the	ssigned, and es, and assigns, tes patent plied for or tions, ns thereof, and ldition, each ademark Office for the and interest in the full end of n held and tes to execute his Assignment
or perfecting title to the Invention and all related patents and applications, in IBM, its successors, leg representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or ass Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transment to IBM and is unaware of any reason why they may not have the full and une to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, at execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby go successors, legal representatives, and assigns, the right to insert in this Assignment any further ident (including, but not limited to, patent Application Number) which may be necessary or desirable for a this Assignment. This Assignment is governed by the substantive laws of the State of New York, and 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 1 by fine or imprisonment of not more than five (5) years, or both.	signs.  Instance of the rights of the right of the right of the rants IBM, its ification recordation of any disputes

(2) Legal Name of Inventor: SEETHARAMAN SANKARA RAMASUBRAMANIAN

Signature: \_\_\_\_\_\_\_ Date: 10th August 2019

IBM DOCKET NUMBER: P201901311US01

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

# STODACE AND DETENTION INTELLICENCE IN MODILE NETWODICS

STORAGE AND RETENTION INTELLIGENCE IN MODILE NET WORKS
As a below named 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 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, the undersigned inventor(s) has/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, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to grant to IBM, the 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, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representives, and assigns, the 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, each undersigned inven
Signatura Pata 10 August 2010
Simon Hohinas David Annua 2010

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**PATENT** REEL: 050041 FRAME: 0695

**RECORDED: 08/13/2019**