PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3885937

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VIJAY EKAMBARAM	09/30/2014
ASHISH K. MATHUR	09/30/2014
VIKRANT NANDAKUMAR	10/01/2014
VIVEK SHARMA	10/01/2014

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:	15162648

CORRESPONDENCE DATA

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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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Email: johnsodc@us.ibm.com

Correspondent Name: IBM CORPORATION - ENDICOTT DRAFTING CENT

Address Line 1: 1701 NORTH STREET Address Line 2: BUILDING 256-3

Address Line 4: ENDICOTT, NEW YORK 13760

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05/24/2016	
serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 8

PATENT REEL: 038691 FRAME: 0305

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PATENT REEL: 038691 FRAME: 0306

DECLARATION (17 C.F.R. 1.60) FOR ETHERY PATENT APPLICATION USING AN APPLICATION DATA SHEET (17 C.F.R. 1.70) AND ASSESSMENT

Title of Invention (\$3.50) (1.70) (10.70) (1.70) (1.70) (1.70) (1.70) (1.70) (1.70) (1.70) (1.70) (1.70) (1.70)

As a below named inventor. Thereby declare that

This declaration is directed to the afficient application, a 14 following business of the second

Till brited States application or RCT interrational application against a professional applications.

The above alconomical application was made or adherized to be apple by a

Lbelieve that fam the original inventor or an original μ oral accessor of a claimed inventor in $a_{\rm s}$ application

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Tam aware of the duty to disclose to the Forced Space Paleon and Trademark () the grant of the North Community of the Space of the North Community of the Space o

Whereas, the undersigned inventor(s) bas/have made certain inventions, improvements and discoveries. Therein referred to as the "Invention" (disclosed in the above almofted patent application and further identified by the IBM Disclet Number provided above in the header of this document.

Where's Chiternational Business Machines Corporation, a corporation of sessiver kind of a process of the sense of the sens

Now, therefore, for praxit and valuable consideration, the security and afficiency thereof has a acknowledged, each underagond inventor (ASUNOR) being a company of the company of assigned, and otherwise transfers or has proposed to this file is a first of the same of t representatives, and assigns, the entire westitude right price only occurs on the least to be above identified United States parent updates and self-my self-my self-more parent of parents in the self-man the Invention which may be applied for or graphed threather in the Collections States and Collection of or sources, and pursed actions, including all discourses, using a property of the contract of exemplores counterparts substitutes and extension the out of the output of process to the counterparts. There of such applications and grown of such pages. It is a second of the such applications and grown of such applications and grown of such applications. authorizes and requests the Director of the United States Person (1996) and (1996) States Patent, and foreign patent authorities to read any first the second of the second state of the seco It successors legal representatives and asserts the only of carse to the held and employed by Hills to quick ones, the high speciments and the second the terms for which any and all such pages. The beginning the

Level Notice of Inventor: Nijay Ekambarani

Thereby acknowledge that any writter talse statement made to this declaration is particular under 18. U.S.C. 1001 by fine or impressented of an inore than five (S) years, or each.

Signature (V)	
Signature (3) Legal Name of Inventor: Vikrant Nandakumur	
Signature	
(4) Legal Name of Inventor: Vivok Sharma	
Signature:	

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: SAMPLING OF DEVICE STATES FOR MOBILE SOFTWARE APPLICATIONS

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	***********
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 representatives, 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 inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal

Page 1 of 2

representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, 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.

(1) Legal Name of Inventor: Vijay Ekambaram	
Signature:	Date:
(2) Legal Name of Inventor: Ashish K. Mathur	
Signature: Arthur	Done: 30% September, 201
(3) Legal Name of Inventor: Vikrant Nandakumar	
Signature:	
(4) Legal Name of Inventor: Vivek Sharma	Date:
Signature:	Date

Page 2 of 2

DECLARATION (AS C.E.R. LANGOR LITHLITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C. F.B. 1.76) AND ASSIGNMENT

Tide of Invention: SAMPLING OF DEVICE STATES FOR MOBILE SOFTWARE APPEN ATTRICK

As a below market investor. Therefore declare that

This declaration is directed to the attached application, or fit to how in the constant plants.

[] United States application or [KT] international application manifest

The above adentified application was made or nother cert to be made by me

I believe that I am the original inventor or an original joint inventor of a claumed inventor or so application.

I have reviewed and understand the contents of the application, including the charge

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be makeral to proceed by as defined in $\mathcal{O}(F_K)_{0 \leq t \leq 0}$ (Se

Whereas, the undersigned inventor(s) has/have made certain assentions, improvement, and his creations (berein referred to as the "Invention") disclosed in the above identified patent application and parise identified by the IBM Docket Number provided above in the header of this decoupers.

Whereas, International Business Machines Corporation, a comoration of New York having a process business at Armonk, New York (berein referred to as "BNC"), desires to acquire and as a large section of the control of the co treestor desires to grant to IBM. The entire worldwide right tribe and interest to and bothe to entire to in and to any and all patent applications and patents directed thereig.

Now, therefore, for positional valuable consideration, the resign and authorises a floridation of the consideration of the consideratio acknowledged each understand resemble? ACMONOR Thereby out on his end assume to his assigned, and otherwise transfers or has transferred to BDM (the "Assigned) (1986). representatives, and assigns, the entire worldwide right title, and interest in and to the layers on the al cive schedulied United States patent applications and any and all other patent applications and parent seri the Invention which may be applied for or granted therefor in the United States Sold in all forces Countries and puredictions, including all decisions continuations recovers recovering extensions, counterparts, substitutes, and extensions thereof, and all rights of progress sections in the confilling of such applications and continued by the patents. In addition, care underlying income to see authorizes and requests the Director of the Despet Specific Parish Property (1996) (1996) States Patent, and foreign patent authorizes to a superior to its successors, legal representatives, and assigns the entire visiting to the first succession and interest in a legal to the succession of the succession o sums to be held and enjoyed by BKM in the control of the control o the removing the second any and all anch patents may be recording this Assignment or perfection to the large large time.

IBM DOCKET NUMBER (N920140121US)

representatives, or assigns.

Each undersigned inventor acknowledges their prior and origing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unexcumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, 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.

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.

(1) Legal Name of Inventor: Vijay Ekambaram	
Signature	Dates
(2) Legal Name of Inventor: Ashish K. Mathur	
Ŷignaure	Date:
3) Legal Name of Inventor: Vikrant Nandakumar	
Signature NV YEsc.(Date: 01 - 020 - 2014
i) Legal Name of Inventor: Vivek Sharma	
Sussins	Date

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REEL: 038691 FRAME: 0312

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: SAMPLING OF DEVICE STATES FOR MOBILE SOFTWARE APPLICATIONS

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
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.
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.

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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 representatives, 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 inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal

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Facth understand institute science degree their prior and regating obligations in tell, assign, and transfer the rights under this Assignment to B&M and is untiscore of any reason why they may not have the fall and macromological right to soil, assign, and transfer the rights hereby and, assigned, and transferred, and has any excessed, and will not execute, any document or instrument in conflict hereafth. Each undersigned towards also bereby ground B&A, its successors, legal representations, and assigns, the right to insert in this Assignment tany further identification (including, but not limited to, patent Application Sumfair) which may be necessary or desirable for recyclables of this Assignment. This Assignment is governed by the substantile laws of the State of New York, and my disputes will be resolved in a New York state court to federal court sited in New York.

Thereby acknowledge that any willful talse statement under in this declaration is particular under 18 U.S.C. 1981 by time or imprisonment of not more than tive (2) years, or both.

Signaturo	Dure:
(2) Legal Number biventor. Ashish K. Mathur	
Signature	
2) Lagal Name of Investor: Vikrant Naudokumur	
Signature:	Date:
ki Legal Name of Inventor: Viveli Sharma	
Signature: VIV-2	1800 C) 10 2014

Page 2 of 2

PATENT REEL: 038691 FRAME: 0314

RECORDED: 05/24/2016