504091732 11/11/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4138400

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIN GE	11/23/2015
JUAN GU	11/20/2015
YONG DENG HU	11/23/2015
WEN JIANG	11/21/2015
XIAO LV	11/21/2015
HUI QIU	11/23/2015
MICHAEL STARKEY	11/20/2015

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:	15349027

CORRESPONDENCE DATA

Fax Number: (607)429-4119

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: 408-463-5675
Email: slaterd@us.ibm.com

Correspondent Name: IBM CORPORATION - ENDICOTT DRAFTING CENT

Address Line 1: 555 BAILEY AVENUE, IPLAW, J46/G4

Address Line 4: SAN JOSE, CALIFORNIA 95141

ATTORNEY DOCKET NUMBER:	CN920150136US4
NAME OF SUBMITTER:	MAEVE CARPENTER
SIGNATURE:	/Maeve Carpenter/
DATE SIGNED:	11/11/2016

PATENT 504091732 REEL: 040282 FRAME: 0921

Total Attachments: 6
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PATENT REEL: 040282 FRAME: 0922

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: RELATIVE POSITIONING OF A MOBILE COMPUTING DEVICE IN A NETWORK

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.	
believe that I am the original inventor or an original joint inventor of a claimed invention in the application.	
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 mown 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.

Page 1 of 2

IBM DOCKET NUMBER: CN920150136US1

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.

(1) Legal Name of In-	ventor: Jin Ge		
Signature:	Ge	Jih	Date: 10 5 11 73
(2) Legal Name of Im	ventor: Juan Gu		
Signature:	顾柳	Juan Gru	Date: 2015 . // .20
(3) Legal Name of Inv	entor: Yong Dei	ng Hu	
Signature:	极力企业	Yong Deng Ali	Date: <u>2015 // 23</u>
(4) Legal Name of Inv	entor: Wen Jian	Œ	
Signature:	蒋建	Wen Jiang	Date: 2015. . 2
(5) Legal Name of In-	ventor: Xiao Lv	·	
Signature:	3 W)	XiaoLV	Date: W(5.//2/
(6) Legal Name of In-		Markette (1986) (1986) Talanta (1986) (1986)	
Signature:			Date:
(7) Legal Name of In	ventor: Michael i	Starkey	
Signature		real and the second	Date:

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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 CFR Section 1.56.

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IBM DOCKET NUMBER: CN920150136US1

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(1) Legal Name of Inventor: Jin Ge	
Signature:	Date:
(2) Legal Name of Inventor: Juan Gu	
Signature:	Date:
(3) Legal Name of Inventor: Yong Deng Hu	
Signature:	Date:
(4) Legal Name of Inventor: Wen Jiang	
Signature:	Date:
(5) Legal Name of Inventor: Xiao Lv	
Signature:	Date:
(6) Legal Name of Inventor: Hui Qiu	
Signature: HW (HUI QIU)	Date: 2015.11.23
(7) Legal Name of Inventor: Michael Starkey	
Signature:	Date:

Page 2 of 2

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Page I of 2

IBM DOCKET NUMBER: CN920150136USI

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.

2) Legal Name of Inventor: Juan Gu Signature: Date: 3) Legal Name of Inventor: Yong Deng Hu Signature: Date: 4) Legal Name of Inventor: Wen Jiang Signature: Date: 5) Legal Name of Inventor: Niso Ly Signature: Date: 5) Legal Name of Inventor: Hui Qiu Signature: Date:	***************************************
Signature: Date: Date: Date	
Signature:	***************************************
Signature:	
Legal Name of Inventor: Wen Jiang Date:	
Legal Name of Inventor: Niao Lv Signature Date: Legal Name of Inventor: Hui Qiu Signature Date:	
Legal Name of Inventor: Nino Ly Signature: Legal Name of Inventor: Hui Qiu Signature: Date:	Tubusan
Signature: Date: Legal Name of Inventor: Hui Qiu Signature: Date:	
Legal Name of Inventor: Hui Qiu Signature:	······································
Signature Date:	
Legal Name of Inventor: Michael Starkey	

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