503725764 03/08/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3772407

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:	15063553		

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: modonnel@us.ibm.com

Correspondent Name: ENDICOTT DRAFTING CENTER

Address Line 1: 555 BAILEY AVENUE

Address Line 2: J46/G4

Address Line 4: SAN JOSE, CALIFORNIA 95141

ATTORNEY DOCKET NUMBER:	CN920150136US2
NAME OF SUBMITTER:	MAEVE CARPENTER
SIGNATURE:	/Maeve Carpenter/
DATE SIGNED:	03/08/2016

503725764 PATENT REEL: 037917 FRAME: 0047

This document serves as an Oath/Declaration (37 CFR 1.63).

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Total Attachments: 6

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PATENT REEL: 037917 FRAME: 0048

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.	
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, 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 Inventor: Jin Ge		
	Signature:	a Ge	Jih	Date: 16/5 1/73
(2)	Legal Name	of Inventor: Juan Gu		
	Signature:	顶头	Juan Gu	Date: 2015 . 11.20
(3)	Legal Name	of Inventor: Yong De		
	Signature:	<u> </u>	Yong Dang Alic	Date: 2015 . 11 . 2)
(4)	Legal Name	of Inventor: Wen Jian		
	Signature:		Wen Jiang	Date:
(5)	er er <u>sa</u> n in in sette	of Inventor: Xiao Lv		
	Signature:	<i>" " " " " " " " " "</i>		_ Date: 10(5.1/2/
	a Marini takan dalah s	magnification of the second		
(6)		of Inventor: Hui Qiu		
rikasi Perbal Perseki	Signature:		Harris (1995) - Karlin Garage (1995) Harris (1995) - Harris (1995) - Harris (1995) Harris (1995) - Harris (1995) - Harris (1995)	Date:
(7)	Legal Name	of Inventor: Michael	entablij to septim i Polijik, is septim i Politike i Politike i Politike i Politike Starkey ja septim i Politike i Politike Politike i Politike i Politike i Politike Septim i Marchine i Politike i Politike i Politike	oter i ki garin ji a saabaa sigi Ki ta sii sii saabaa saaba

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Page 1 of 2

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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: MM (Hui Qiu)	Date: 1015.11.23
(7) Legal Name of Inventor: Michael Starkey	
Signature:	Date:

Page 2 of 2

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	Signature:	Date:	
\$)	Legal Name of Inventor: Wen Jiang	acari	
	Signature	Date:	
1	Legal Name of Inventor: Xiso Lv		
	Signature		
	Legal Name of Inventor: Hui Qiu		ington on the first
	Signature	Date:_	<u> </u>
1)	Legal Name of Inventor: Michael Starkey	mres in see	
	Signature: Nell/Jh.+	Date:	Nov 20/20

Page 2 of 2

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