### 504441198 07/01/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4487899

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
TIERRA BILLS	11/09/2016
REGINALD BRYANT	11/12/2016
XIANGZHU LONG	11/10/2016
AISHA WALCOTT	11/11/2016
JOHN WAMBURU	11/14/2016

#### 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:	15640489

### **CORRESPONDENCE DATA**

**Fax Number:** (203)517-9615

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: 203 433 3157
Email: docket@oeklaw.com

Correspondent Name: OTTERSTEDT, ELLENBOGEN & KAMMER, LLP

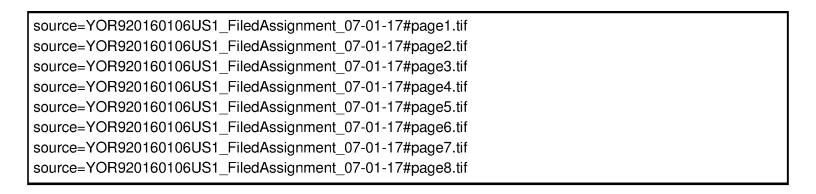
Address Line 1: P.O. BOX 381

Address Line 4: COS COB, CONNECTICUT 06807-0381

ATTORNEY DOCKET NUMBER:	YOR920160106US1
NAME OF SUBMITTER:	PAUL J. OTTERSTEDT
SIGNATURE:	/PAUL J. OTTERSTEDT/
DATE SIGNED:	07/01/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
T	

Total Attachments: 8

PATENT REEL: 042880 FRAME: 0889



PATENT REEL: 042880 FRAME: 0890

IBM DOCKET NUMBER: IBM YOR920160106

# 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: MOVING TRAFFIC OBSTACLE DETECTION AND AVOIDANCE

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application.

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.

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: TIERRA BILLS	
,	Signature:	
(2)	Legal Name of Inventor: REGINALD BRYANT	
:	Signature:	Date:
(3)	Legal Name of Inventor: XIANGZHU LONG	
	Signature:	Date:
(4)	Legal Name of Inventor: AISHA WALCOTT	
	Signature:	Date:
(5)	Legal Name of Inventor: JOHN WAMBURU	
	Signature:	Date:

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(1) Legal Name of Inventor: TIERRA B	ILLS
Signature:	Date:
(2) Legal Name of Inventor: REGINALI	BRYANT
Signature:	Date: 12/Nov / 2016  547 (11)
(3) Legal Name of Inventor: XIANGZH	
Signature:	Date:
(4) Legal Name of Inventor: AISHA WA	Date: W/11/16
(5) Legal Name of Inventor: JOHN WA	
Signature:	Date:

Page 2 of 2

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(1) Legal Name of Inventor: TIERRA HILLS

<b>∞</b> ′ • • • • • • • • • • • • • • • • • •	
Signature	Date:
(2) Legal Name of Inventor: REGINALD BRYANT	
Signature:	Ow
(3) Legal Name of inventor: XIANGZHU LONG	
Signature: <u>X414/As 1677</u>	Date: 1/04/0-2016
(4) Legal Name of Inventor: AISHA WALCOTT	
Signature:	
(5) Legal Name of Inventor: JOHN WAMBURU	
Signature:	Date

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### IBM DOCKET NUMBER: IBM YOR920160106

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.

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	Date:	
entor: REGINALD BRYANT		
	Date:	·······
entor: XIANGZHU LONG		
	Date:	*********
entor: AISHA WALCOTT		
	entor: REGINALD BRYANT entor: XIANGZHU LONG	entor: REGINALD BRYANT  Date:  entor: XIANGZHU LONG

Page 2 of 2

PATENT REEL: 042880 FRAME: 0898