#### 504963234 06/15/2018

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5009981

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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RAVI TEJWANI	06/14/2018
PATRICK WATSON	06/14/2018
ALDIS SIPOLINS	06/14/2018
JENNA REINEN	06/14/2018
HUI WU	06/14/2018

#### **RECEIVING PARTY DATA**

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City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

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

Property Type	Number
Application Number:	16010190

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	P201705844US01/IBMP385US
NAME OF SUBMITTER:	DEIDRA D. RITCHERSON
SIGNATURE:	/Deidra D. Ritcherson/
DATE SIGNED:	06/15/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

504963234 REEL: 046392 FRAME: 0367

#### PATENT

#### **Total Attachments: 18** source=Signed\_CombinedDeclarationAssignment#page1.tif source=Signed CombinedDeclarationAssignment#page2.tif source=Signed CombinedDeclarationAssignment#page3.tif source=Signed\_CombinedDeclarationAssignment#page4.tif source=Signed CombinedDeclarationAssignment#page5.tif source=Signed CombinedDeclarationAssignment#page6.tif source=Signed CombinedDeclarationAssignment#page7.tif source=Signed\_CombinedDeclarationAssignment#page8.tif source=Signed CombinedDeclarationAssignment#page9.tif source=Signed\_CombinedDeclarationAssignment#page10.tif source=Signed\_CombinedDeclarationAssignment#page11.tif source=Signed CombinedDeclarationAssignment#page12.tif source=Signed CombinedDeclarationAssignment#page13.tif source=Signed CombinedDeclarationAssignment#page14.tif source=Signed\_CombinedDeclarationAssignment#page15.tif source=Signed CombinedDeclarationAssignment#page16.tif source=Signed CombinedDeclarationAssignment#page17.tif source=Signed CombinedDeclarationAssignment#page18.tif

## 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 Jovennon, VIRTUAL GENERATION OF LABELLO MOTION SENSOR DATA

As a below named	and undersigned in	ventor, I hereby	declare that:		
This declaration is	directed to the atta	ched application	or (If following I	eex is checked)	
[ ] United States op	optication or PCT to	sternasionsi appl	cation number		Alledon
The above-identifie	ed application was	made or authoriz	red to be made by	me.	
I believe that I am application.	organi aventos	er or an original j	ons inventor of a	claimed inven	non in the
I have reviewed assured	d understand the co	intents of the app	olication, includin	g the claims	
I am aware of the c known to me to be					information
					ses (beroin referred

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York faving a place of business at Armonic New York desires to acquire, and I desire to grant to the ASSIGNEE, my entire confidence right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto.

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:

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 to and to the invention, the above-identified United States patent application, and any and all other patent applications and parents for the Invention which may be applied for or granted therefore in the United States and in all foreign countries and jurisdictions, including all divisions, confinuations, ressues, reexaminations, reservals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filling 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, issail 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 jew juj pote reasonably related to recording this Assignment or perfecting this to the invention and all

related params and applications, in the ASSIGNEE, its successors, legal representatives, or assigns whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns. I acknowledge my prior and organize obligations in self-assign, and transfer my rights under the ASSIGNEE and are unavoyate of any reason only i may not have the full-and unancountered right to self, 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 essigns, the right to reserv in this Assignment any further identification (including, but not limited to patient Application Number which may be necessary or destrable for recordation of this Assignment. This Assignment is governed by the substantive and 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: Marco Cavallo	
Signature Marca Caralle	Date: <u>05/44/48</u>
(2) Legal Name of Inventor: Ravi Tejwani	
Signature:	Date
(3) Legal Name of Inventor: Patrick Watson	
Signature.	Date
(4) Legal Name of Inventor: Aldis Sipolins	
Signature:	Date

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### 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: VIRTUAL GENERATION OF LABELED MOTION SENSOR DATA

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 numberfiled 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

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;

known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

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 therefore 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.

Date:
Date: <u>06/14/2013</u>
Date:
Date:

PATENT

**REEL: 046392 FRAME: 0373** 

(5) Legal Name of Inventor: Jenna Reinen								
Signature:	Date:							
(6) Legal Name of Inventor: Hui Wu								
Signature:	Date:							

### 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: VIRTUAL GENERATION OF LABELED MOTION SENSOR DATA

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 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 C.F.R. § 1.56.
Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referre 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

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 therefore 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

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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: Marco Cavallo		
Signature:	Date:	
(2) Legal Name of Inventor: Ravi Tejwani		
Signature:	Date:	
(3) Legal Name of Inventor: Patrick Watson		
Signature:	Date: 6/14/2018	
(4) Legal Name of Inventor: Aldis Sipolins		
Cimpatonia.	Pata	

(5) Legal Name of Inventor: Jenna Reinen			
Signature:	Date:		
(6) Legal Name of Inventor: Hui Wu			
Signature:	Date:		

### 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: VIRTUAL GENERATION OF LABELED MOTION SENSOR DATA

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	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 inventic application.	on in the
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 in known to me to be material to patentability as defined in 37 C.F.R. § 1.56.	nformation
Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries to as the "Invention") disclosed in the above-identified patent application and further ide IBM Docket Number provided above in the header of this document;	

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Signature:	Date:_	
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Signature:	Date:	
(4) Legal Name of Inventor: Aldis Sipolins		
Signature: Abs ); ///	Date:	June 14, 2018

(5) Legal Name of Inventor: Jenna Reinen		
Signature:	Date:	
(6) Legal Name of Inventor: Hui Wu		
Signature:	Date:	

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I have reviewed and understand the contents of the application, including the claims.
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(1) Local Nama of Inventor Mana Cavalla

(1) Legal Name of Inventor. Marco Cavano		
Signature:	Date:	
(2) Legal Name of Inventor: Ravi Tejwani		
Signature:	Date:	
(3) Legal Name of Inventor: Patrick Watson		
Signature:	Date:	
(4) Legal Name of Inventor: Aldis Sipolins		
Signature	Date	

(5) Legal Name of Inventor: Jenna Reinen	
Signature: Ava Cen	<sub>Date:</sub> 6/14/18
(6) Legal Name of Inventor: Hui Wu	
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(4) Legal Name of Inventor: Aldis Sipolins	
Signature	Notes

(5) Legal Nar	me of Inventor: Je	nna Reinen		
Signature:	······································	***************************************	Date:	
(6) Legal Nai	me of Inventor: H	ai Wa		
Signature:			Date: 06/10	4/2018

PATENT REEL: 046392 FRAME: 0386

**RECORDED: 06/15/2018**