505312876 02/05/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5359657

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JINHO HWANG	02/04/2019
ANUP KALIA	02/04/2019
MUHAMMED FATIH BULUT	02/04/2019
MAJA VUKOVIC	02/05/2019
JIN XIAO	02/04/2019
ROHIT MADHUKAR KHANDEKAR	02/04/2019
RAGHAV BATTA	02/04/2019

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:	16267482

CORRESPONDENCE DATA

Fax Number: (301)948-7774

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: (301) 948-7775

Email: rocky@legalplanner.com

Correspondent Name: LIEBERMAN & BRANDSDORFER, LLC

Address Line 1: 802 STILL CREEK LANE

Address Line 4: GAITHERSBURG, MARYLAND 20878

ATTORNEY DOCKET NUMBER:	P201806599US01
NAME OF SUBMITTER:	ROCHELLE LIEBERMAN
SIGNATURE:	/Rochelle Lieberman/
DATE SIGNED:	02/05/2019

PATENT 505312876 REEL: 048236 FRAME: 0472

Total Attachments: 7
source=P201806599US01_DeclarationAssignment#page1.tif
source=P201806599US01_DeclarationAssignment#page2.tif
source=P201806599US01_DeclarationAssignment#page3.tif
source=P201806599US01_DeclarationAssignment#page4.tif
source=P201806599US01_DeclarationAssignment#page5.tif
source=P201806599US01_DeclarationAssignment#page5.tif
source=P201806599US01_DeclarationAssignment#page6.tif

source=P201806599US01 DeclarationAssignment#page7.tif

PATENT REEL: 048236 FRAME: 0473

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

T	iť	۵۱	αf	In	vei	nti	011	
			4 11		V		4 11 1	

Generating Context Aware Consumable Instructions
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 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 known to me to be material to patentability as defined in 37 CFR Section 1.56.
Wilesand de la desire d'instant (a) la dissant de la desire instant de la dissant de la disant de la dissant de la dissant de la dissant de la dissant de la

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

Page 1 of 3

IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal 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: Jinho Hwang	
Si	ignature:	Date: 02/04/2019
(2)	Legal Name of Inventor: Anup Kalia	
Si	ignature:	Date:
(3)	Legal Name of Inventor: Muhammed Fatih Bulut	
Si	ignature:	Date:
(4)	Legal Name of Inventor: Maja Vukovic	
Si	ionature:	Date:

IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal 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) Le	egal Name of Inventor: Jinho Hwang		
Signat	ure:	Date:_	
(2) Le	gal Name of Inventor: Anup Kalia		
Signat	ure: <u>Anup Kuman Katia</u>	Date:_	2-4-2019
(3) Le	gal Name of Inventor: Muhammed Fatih Bulut		
Signat	ure:	Date:_	
(4) Le	gal Name of Inventor: Maja Vukovic		
Signati	ure.	Date:	

IBM DOCKET NUMBER: P201806599US01

BM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal 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 sted in New York.

I hereby acknowledge that any willful take statement made in this declaration is punishable under IS U.S.C. 1001 by fine or improvement of not more than five (5) years, or both.

(1)	Legal Name of Inventor. Jinho Hwang	
Sign	ESTATE	Delite
(a)	Legal Name of Inventor: Anup Kalia	
Sign	HARINE:	Date
Sept.	Legal Name of Inventor Muhammed Fath Bulut Color Color	Date: <u>(2/04/2</u> 019)
48	Legal Name of Invensor Maja Valordo	
Sign	SALUT.	Bute
illiminimininininininininininininininini		

Page 2 of 3

IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal 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: Jinho Hwang	
S.	ignature:	Date:
(2)	Legal Name of Inventor: Anup Kalia	
Si	gnature:	Date:
(3)	Legal Name of Inventor: Muhammed Fatih Bulut	
Si	gnature:	Date:
(4)	Legal Name of Inventor: Maja Vukovic	
Si	gnature:	Date: 2/5/19

IBM DOCKET NUMBER: P201806599US01

(5) Legal Name of Inventor: Jin Xiao	
Signature:	Date: <u>Feb. 4, 201</u> 9
(6) Legal Name of Inventor: Rohit Madhukar Kh	andekar
Signature:	Date:
(7) Legal Name of Inventor: Raghav Batta	
Circuntura	Patas

(5)	Legal Name of Inventor: Jin Xiao	
Si	gnature:	Date:
(6) Si	Legal Name of Inventor: Rohit Madhukar Khandekar Cultural Legal ignature:	Date:
(7)	Legal Name of Inventor: Raghav Batta	2/4/2019