504180961 01/17/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4228594

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SANGEETHKUMAR MURUGESAN	11/22/2016
SUDHEER GANTI	11/22/2016
DEBRAJ GOSWAMI	11/22/2016
BALAKRISHNA PILLALAMARRI	11/22/2016

RECEIVING PARTY DATA

Name:	BANK OF AMERICA CORPORATION
Street Address:	214 NORTH TRYON STREET
Internal Address:	MAILCODE: NC1-027-20-05
City:	CHARLOTTE
State/Country:	NORTH CAROLINA
Postal Code:	28255

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	15407742		

CORRESPONDENCE DATA

Fax Number: (704)331-1159

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: 704-331-3716

Email: spillersr@mvalaw.com

Correspondent Name: BANK OF AMERICA C/O MOORE AND VAN ALLEN

Address Line 1: 3015 CARRINGTON MILL BLVD., SUITE 400

Address Line 2: POST OFFICE BOX 13706

Address Line 4: RESEARCH TRIANGLE PK, NORTH CAROLINA 27709

ATTORNEY DOCKET NUMBER:	7505US1.014033.2927
NAME OF SUBMITTER:	JAMES C. EDWARDS
SIGNATURE:	/James C. Edwards/
DATE SIGNED:	01/17/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 504180961 REEL: 040988 FRAME: 0274

Total Attachments: 8 source=Combined_Assignment_and_Declarations_014033_2927#page1.tif source=Combined_Assignment_and_Declarations_014033_2927#page2.tif source=Combined_Assignment_and_Declarations_014033_2927#page3.tif source=Combined_Assignment_and_Declarations_014033_2927#page4.tif source=Combined_Assignment_and_Declarations_014033_2927#page5.tif source=Combined_Assignment_and_Declarations_014033_2927#page6.tif source=Combined_Assignment_and_Declarations_014033_2927#page7.tif source=Combined_Assignment_and_Declarations_014033_2927#page8.tif

PATENT REEL: 040988 FRAME: 0275

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

APPLICATION DATA SHEET (37 CFR 1.76)				
Title of Invention	HYBRID SYSTEM FOR REMOTE APPLICATION DEVELOPMENT			
As the below	named inventor, I hereby declare that:			
This declarat is directed to	IN THE ATTACRED ADDITION. OF			
	United States application or PCT international application number			
The above-io	lentified application was made or authorized to be made by me.			
I believe tha	t I am the original inventor or an original joint inventor of a claimed invention in the application.			
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by sonment of not more than five (5) years, or both.			
	ASSIGNMENT			
WHEREAS, I, Sangeethkumar Murugesan("Assignor"), a citizen of India (Country), residing in Chennai, India (City, State/Province) have invented the above invention. If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to Insert the filing date and application number below after they become known and prior to filing the recordation.				
U.S. Application No. <u>15/407,742</u> , filed <u>January 17, 2017</u> .				
WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:				
NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for				

salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, reviews, continuations, continuation-in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and en

Firm No.: 014033.2927

PMN: 7505US1

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR	resure are not publicly available.
Inventor: SANGEETHKUMAR MURUGESAN	Date: <u>2_2_A/OV_2-1016</u>
Signature: 1.5-1-thx	

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	HYBRID SYSTEM FOR REMOTE APPLICATION DEVELOPMENT			
As the below	named inventor, I hereby declare that:			
This declarat	A THE ALTACHED ADDIRCATION, OF			
	United States application or PCT international application number			
The above-id	entified application was made or authorized to be made by me.			
I believe that	l am the original inventor or an original joint inventor of a claimed invention in the application.			
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by sonment of not more than five (5) years, or both.			
	ASSIGNMENT			
State/Provin even date he hereby autho	Sudheer Ganti ("Assignor"), a citizen of India (Country), residing in Hyderabad, India (City, ce) have invented the above invention. If the following lines are blank, the above application was filed on crewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, prize the attorneys for Bank of America to insert the filing date and application number below after they want and prior to filing the recordation.			
	U.S. Application No. <u>15/407,742</u> filed <u>January 17, 2017</u>			
WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:				
salary or pay acknowledge and legal rep America and Letters Pater which such a and in and to reexamination trademarks useful to ma official whose Assignee, or	EFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including ment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby ed, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns presentatives, the full and exclusive right, title and interest for the territory of the United States of all countries foreign thereto, and throughout the world and in space, (including the right to apply for int in foreign countries in its own name and to claim any priority rights for such foreign applications to applications are entitled under international conventions, treaties, or otherwise), in and to said inventions all applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, ons, reviews, continuations, continuation-in-parts and extensions thereof, and in and to all copyrights, with their associated goodwill, trade secrets, confidential information, and compilations, necessary or ske, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any see duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I int to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at			

the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.

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LEGAL NAME OF INVENTOR

Inventor: SUDHEER GANTI

Date: 22 11 2016

Signature: 97.53

1111

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of H Invention	IYBRID SYSTEM FOR REMOTE APPLICATION DEVELOPMENT
As the below na	imed inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application number filed on
The above-ident	tified application was made or authorized to be made by me.
I believe that I a	am the original inventor or an original joint inventor of a claimed invention in the application.
	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by ament of not more than five (5) years, or both.
	ASSIGNMENT
State/Province) even date herev hereby authoriz	ebraj Goswami ("Assignor"), a citizen of India (Country), residing in Hyderabad, India (City, have invented the above invention. If the following lines are blank, the above application was filed on with, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, ze the attorneys for Bank of America to insert the filing date and application number below after they and prior to filing the recordation.
	U.S. Application No. <u>15/407,742</u> , filed <u>January 17, 2017</u> .
of Delaware, an entire right, title	IK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the e and interest in and to the aforesaid inventions and in and to all applications and Letters Patent and in the United States of America, and in any and all countries foreign thereto:
salary or payme acknowledged, and legal representations and all Letters Patent in which such appand in and to all reexaminations trademarks with useful to make, official whose describing acknowledged.	ORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including ent for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns sentatives, the full and exclusive right, title and interest for the territory of the United States of I countries foreign thereto, and throughout the world and in space, (including the right to apply for in foreign countries in its own name and to claim any priority rights for such foreign applications to oblications are entitled under international conventions, treaties, or otherwise), in and to said inventions II applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, is, reviews, continuations, continuation-in-parts and extensions thereof, and in and to all copyrights, the their associated goodwill, trade secrets, confidential information, and compilations, necessary or use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said is successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I

have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.

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LEGAL NAME OF INVENTOR

Inventor: DEBRAI GOSWAMI

Date: 22 November 2016

[Page 2 of 2]

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	HYBRID SYSTEM FOR REMOTE APPLICATION DEVELOPMENT			
As the below	/ nam	ed in	ventor, I hereby declare that:	
This declaration is directed to		⊠	The attached application, or	
			United States application or PCT international application number	
The above-ic	lentif	ied ap	plication was made or authorized to be made by me.	
I believe tha	t I am	the c	riginal inventor or an original joint inventor of a claimed invention in the application.	
		-	hat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fnot more than five (5) years, or both.	
			ASSIGNMENT	

WHEREAS, I, Balakrishna Pillalamarri ("Assignor"), a citizen of India (Country), residing in Hyderabad, India (City, State/Province) have invented the above invention. If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to Insert the filing date and application number below after they become known and prior to filing the recordation.

J.S. Ar	plication	No.	15/407,742	filed	January 17, 2017

WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:

NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, reviews, continuations, continuation-in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissae, reexamination, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.

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LEGAL NAME OF INVENTOR				
Inventor: BALAKRISHNA PILLALAMARRI	Date: 22-NoV-2016			
Signature:				