504806775 03/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4853507

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SIDHARTHA KAW	02/27/2018
VISHWAS KORDE	02/27/2018
KANSTANTSIN OSIPOV	02/27/2018
MD KAMRUL HASAN PULOK	02/27/2018
SUBBARAYALU MUTHURANGAN	02/27/2018
JOHNY RAJKUMAR	02/27/2018
KUMAR SUMIT	02/27/2018

RECEIVING PARTY DATA

Name:	BANK OF AMERICA CORPORATION	
Street Address:	MAIL CODE NC 1-027-20-05	
Internal Address:	214 N. TRYON ST.	
City:	CHARLOTTE	
State/Country:	NORTH CAROLINA	
Postal Code:	28255	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15913371

CORRESPONDENCE DATA

Fax Number: (202)824-3001

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: (202) 824-3000

Email: bwptopat@bannerwitcoff.com, mseasay@bannerwitcoff.com

Correspondent Name: BANNER & WITCOFF, LTD.

Address Line 1: 1100 13TH ST. NW

Address Line 2: STE 1200

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	007131.01964\US
NAME OF SUBMITTER:	KIRK A. SIGMON
SIGNATURE:	/KIRK A. SIGMON/

DATE SIGNED:	03/06/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 14	•	
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source=Executed assignments & decs	for ALL inventors#page2.tif	
source=Executed assignments & decs	for ALL inventors#page3.tif	
source=Executed assignments & decs for ALL inventors#page4.tif		
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PATENT REEL: 045122 FRAME: 0878

Title of Invention	DYNAMIC USER INTERFACE COMPUTING PLATFORM		
As the below	named inventor, I hereby declare that:		
This declaration	A The attached application, of		
	United States application or PCT international application number		
The above-ide	intified application was made or authorized to be made by me.		
I believe that	am the original inventor or an original joint inventor of a claimed invention in the application.		
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or of not more than five (5) years, or both.		
	ASSIGNMENT		
the above inve comply with 3	SIDHACTHA KAW ("Assignor"), a citizen of (Country), residing in WAXHAW, WC (City, State/Province) have invented ention. If the following lines are blank, the above application was filed on even date herewith, otherwise, to 7 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of ert the filing date and application number below after they become known and prior to filing the recordation.		
ŗ	U.S. Application No. <u>15/913,371</u> , filed. March 6, 2018		
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:			
payment for the said Assignor, representative countries foreign countries in its entitled under Letters Patent in-parts and exconfidential in request the Coinventions or rinterest. I represent further than the cominees, any provisional, disproceedings, si	ORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal s, the full and exclusive right, title and interest for the territory of the United States of America and allign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign own name and to claim any priority rights for such foreign applications to which such applications are international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-tensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, formation, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and mmissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said esulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and esent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will reconsideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or and all facts known to me regarding said inventions whenever requested, and that I will execute all non-risional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal gn all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its igns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.		

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 INVE	NTOR				
*·**	J					
Inventor:		SIDHARTHA	KAN	Date:	02/27/18	
Signature:	/	Sidhenth	Man			

Title of Invention	DYNAMIC USER INTERFACE COMPUTING PLATFORM	
As the below	named inventor, I hereby declare that:	
This declaration is directed to:	A THE attached application, or	
	United States application or PCT international application number Filed on	
The above-ide	entified 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.	
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or t of not more than five (5) years, or both.	
	ASSIGNMENT	
WHEREAS, I, Vishwas Korde ("Assignor"), a citizen of India (Country), residing in Matthews, NC (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. 15/913,371 filed March 6, 2018	
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:		
payment for the said Assignor, representative countries fore countries in its entitled under Letters Patent in-parts and exconfidential in request the Colinventions or relaterest. I represent further than increases, any provisional, disproceedings, s	FORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal es, the full and exclusive right, title and interest for the territory of the United States of America and all eigh thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign is own name and to claim any priority rights for such foreign applications to which such applications are rinternational conventions, treaties, or otherwise), in and to said inventions and in and to all applications and to granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and dominissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and resent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will er consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or y and all facts known to me regarding said inventions whenever requested, and that I will execute all non-ivisional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its signs, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.	

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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	
enter de la companya del companya de la companya de la companya del companya de la companya de l	
Inventor: Vishwas Korde	Date: 2/27/2018
Signature: / Signature:	

Title of Invention	DYNAMIC USER INTERFACE COMPUTING PLATFORM		
As the below i	named inventor, I hereby declare that:		
This declaration is directed to:	The attached application, or		
	United States application or PCT international application number		
The above-ide	ntified 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.		
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or of not more than five (5) years, or both.		
	ASSIGNMENT		
WHEREAS, I, Kanstantsin Osipov ("Assignor"), a citizen of Belarus (Country), residing in Chicago, LL (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>15/913,371</u> , filed <u>March 6, 2018</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:			
payment for the said Assignor, I representative countries foreit countries in its entitled under Letters Patent in-parts and exconfidential intrequest the Colinventions or minterest. I representation of the comminees, any provisional, disproceedings, si	ORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal so, the full and exclusive right, title and interest for the territory of the United States of America and all gen thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign own name and to claim any priority rights for such foreign applications to which such applications are international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-tensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, formation, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and mmissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said esulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and esent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will reconsideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or and all facts known to me regarding said inventions whenever requested, and that I will execute all non-isional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal gn all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its igns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.		

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LEGAL NAME OF INVENTOR	re are not publicly available.
Inventor: KANSLANTSIN OSIDOV	Date: <u>C2/27/2018</u>
Signature: / / / / / / / / / / / / / / / / / / /	

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		DYNAMIC USER INTERFACE COMPUTING PLATFORM					
As the below i	named inv	entor, I hereby declare that:					
This declaration is directed to:	his declaration X The attached application, or directed to:						
		United States application or PCT international application number Filed on					
The above-ide	ntified ap	plication was made or authorized to be made by me.					
I believe that	am the o	riginal inventor or an original joint inventor of a claimed invention in the application.					
		nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or ore than five (5) years, or both.					
		ASSIGNMENT					
WHEREAS, I, Md Kamrul Hasan Pulok ("Assignor"), a citizen of Bangladesh (Country), residing in Denver, Colorado (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, filed, March 6, 2018					
Delaware, and title and inter-	I having its est in and	ERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of soffices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the a, and in any and all countries foreign thereto:					
payment for t said Assignor, representative countries fore countries in it entitled under Letters Patent in-parts and e confidential ir request the Coinventions or interest. I represent further than the cominees, any provisional, diproceedings, s	he making by these pes, the full ign theret sown named internation granted textensions formation formation formation formation formation formation der conside and all favisional, resign all law	WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal and exclusive right, title and interest for the territory of the United States of America and all or, and throughout the world and in space, (including the right to apply for Letters Patent in foreign he and to claim any priority rights for such foreign applications to which such applications are conal conventions, treaties, or otherwise), in and to said inventions and in and to all applications and herefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuations, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and here of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said herefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and a warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will ration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or acts known to me regarding said inventions whenever requested, and that I will execute all non-eissue, reexamination, continuation and continuation-in-part applications, testify in any legal and full papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its nominees, to obtain and enforce proper patent protection for said inventions in all countries.					

[Page 1 of 2]

PATENT REEL: 045122 FRAME: 0885

WARNING:

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purposes are not retained in the application me and therefore at	Te flot publicly available.
LEGAL NAME OF INVENTOR	
Inventor: Md Kamrul Hasan Pulok	Date:Feb/27/2018
Signature: /	

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	DYNAMIC USER INTERFACE COMPUTING PLATFORM
As the below n	named inventor, I hereby declare that:
This declaration is directed to:	X The attached application, or
	United States application or PCT international application number Filed on
The above-ider	ntified 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,
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or of not more than five (5) years, or both.
	ASSIGNMENT
Naperville, application was assignor below	Subbarayalu Muthurangan ("Assignor"), a citizen of USA (Country), residing in IL (City, State/Province) have invented the above invention. If the following lines are blank, the above is filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an y, hereby authorize the attorneys for Bank of America to insert the filing date and application number below ome known and prior to filing the recordation.
	U.S. Application No. 15/913,371 , filed March 6, 2018 .
Delaware, and title and intere	NK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, est in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the of America, and in any and all countries foreign thereto:
payment for the said Assignor, be representatived countries foreign countries in its entitled under Letters Patent gin-parts and exconfidential informedians or rejuterest. I representations or rejuterest. I representations or rejuterest, any provisional, div proceedings, si	ORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or ne making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal is, the full and exclusive right, title and interest for the territory of the United States of America and all gn thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign own name and to claim any priority rights for such foreign applications to which such applications are international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuations, tensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, formation, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and mmissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said essulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and essent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will r consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or and all facts known to me regarding said inventions whenever requested, and that I will execute all non-visional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal in all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its

[Page 1 of 2]

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purposes are not recamed in the application life and thereit	ne are not put	incry available.	
LEGAL NAME OF INVENTOR			
Inventor:SUBBARAYALU MUTHURANGAN	Date:	2/27/2018	
Signature: / MSWMharalah		2/27//201	&
Signature.			

Title of Invention	DYNAMIC USER INTERFACE COMPUTING PLATFORM							
As the below	As the below named inventor, I hereby declare that:							
This declaration is directed to:	on X The attached application, or							
	United States application or PCT international application number							
The above-ide	ntified application was made or authorized to be made by me.							
I believe that	am the original inventor or an original joint inventor of a claimed invention in the application.							
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or of not more than five (5) years, or both.							
***************************************	ASSIGNMENT							
TNO/A the above invi- comply with 3	JOHNY PAJEUMAL ("Assignor"), a citizen of (Country), residing in <u>CHALLOTE, NC, USA</u> (City, State/Province) have invented ention. If the following lines are blank, the above application was filed on even date herewith, otherwise, to 7 C.F.B. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of sert the filing date and application number below after they become known and prior to filing the recordation.							
	U.S. Application No. 15/913,371 filed March 6, 2018							
Delaware, and title and inter	NK OF AMERICA CORPORATION ("Assignce"), a Corporation duly organized under the laws of the State of I having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, est in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the of America, and in any and all countries foreign thereto:							
payment for t said Assignor, representative countries fore countries in it entitled under Letters Patent in-parts and e confidential ir request the Co inventions or interest. I repr without furthe nominees, any provisional, di proceedings, s	ORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or he making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal es, the full and exclusive right, title and interest for the territory of the United States of America and all ign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign is own name and to claim any priority rights for such foreign applications to which such applications are rinternational conventions, treaties, or otherwise), in and to said inventions and in and to all applications and igranted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, formation, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and presulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and resulting therefrom to said Assignee, or its successors and assigns, as assignee, or its successors, assigns, or and all facts known to me regarding said inventions whenever requested, and that I will execute all nonvisional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal ign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its signs, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.							

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}		ME OF INV							
	rentor:	Jon		PAJKUMA	Date:	02/2	× ×	18	
58	nature:		Å						
8			8 7	ALTERNATION OF THE PARTY OF THE					

Title of Invention	DYNAMIC USER INTERFACE COMPUTING PLATFORM					
As the below	named inventor, I hereby declare that:					
This declaration is directed to:	χ The attached application, or					
	United States application or PCT international application number Filed on					
The above-ide	entified application was made or authorized to be made by me.					
I believe that	am the original inventor or an original joint inventor of a claimed invention in the application.					
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or of not more than five (5) years, or both.					
	ASSIGNMENT					
WHEREAS, I, Kumar Sumit ("Assignor"), a citizen of India (Country), residing in Charlotte, NC (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>15/913,371</u> , filed <u>March 6, 2018</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:						
payment for the said Assignor, representative countries fore countries in its entitled under Letters Patent in-parts and exconfidential in request the Coinventions or rinterest. I represent further nominees, any provisional, disproceedings, s	ORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or ne making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal is, the full and exclusive right, title and interest for the territory of the United States of America and all ign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign cown name and to claim any priority rights for such foreign applications to which such applications are international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-tensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, formation, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and immissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said esulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and esent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will reconsideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or and all facts known to me regarding said inventions whenever requested, and that I will execute all non-visional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal ign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its igns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.					

Firm No.: 007131.01964

PMN: P7991-US

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.

fore are not publicly available.	
Date:02/27/2018	