506236973 09/03/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6283717

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MANU J. KURIAN	09/14/2018
MICHAEL S. KARAFOTIS	09/14/2018
PAUL G. ROSCOE	09/24/2019
SARITHA P. VRITTAMANI	09/24/2018
JO-ANN TAYLOR	09/25/2018
SRINIVASA D. MADIREDDI	09/24/2018
TIMOTHY L. ATWELL	11/08/2018
CRYSTAL M. SUNDARAMOORTHY	09/01/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17011936

CORRESPONDENCE DATA

Fax Number:

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: 2149536759

Email: ptomail1@bakerbotts.com

Correspondent Name: BAKER BOTTS LLP/BANK OF AMERICA CORPORAT

Address Line 1: 2001 ROSS AVENUE

Address Line 2: SUITE 900

Address Line 4: DALLAS, TEXAS 75201

ATTORNEY DOCKET NUMBER: 015444.1698

NAME OF SUBMITTER: LATOYA JENKINS

506236973 REEL: 053691 FRAME: 0331

SIGNATURE:	/Latoya Jenkins/
DATE SIGNED:	09/03/2020
Total Attachments: 16	
source=015444.1698 Assignment#page	1.tif
source=015444.1698 Assignment#page:	2.tif
source=015444.1698 Assignment#page	3.tif
source=015444.1698 Assignment#page4	4.tif
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PATENT REEL: 053691 FRAME: 0332

P: P8490-US

***************************************	,
Title of Invention	ACCESS CONTROL VALUE SYSTEM
As the below name	ed 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-identific	ed application was made or authorized to be made by me.
I believe that I am I	the original inventor or an original joint inventor of a claimed invention in the application.
•	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. prisonment of not more than five (5) years, or both.
	ASSIGNMENT
Texas (City, Stat application was fi assignment, I an	anu J. Kurian ("Assignor"), a citizen of the United States (Country), residing in Dallas, e/Province) have invented the above invention. If the following lines are blank, the above led on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignor below, hereby authorize the attorneys for Bank of America to insert the filing date number below after they become known and prior to filing the recordation.
U.S. Application N	17/011,936 filed 09/03/2020
WHEREAS, BANI the State of Delaw acquiring the entir	K OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of vare, and having its offices and place of business at Charlotte, North Carolina, is desirous of re right, title and interest in and to the aforesaid inventions and in and to all applications and perefor granted in the United States of America, and in any and all countries foreign thereto:
including salary or which is hereby a Assignee, its succ the territory of the in space, {includin	RE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, payment for the making of inventions, or employee benefits, the receipt and sufficiency of cknowledged, I said Assignor, by these presents do sell, assign and transfer unto said essors, assigns and legal representatives, the full and exclusive right, title and interest for United States of America and all countries foreign thereto, and throughout the world and ig the right to apply for Letters Patent in foreign countries in its own name and to claim any such foreign applications to which such applications are

P: P8490-US

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, 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. Thereby 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 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 PT0-2038 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 PT0-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Manu J. Kurian

Date: 09/14/2018

Signature: / M. J. Kurika

Active 2678 (889.)

PATENT REEL: 053691 FRAME: 0334

P: P8490-US

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

Title of ACCESS CONTROL VALUE SYSTEM
Invention
As the below named inventor, Thereby declare that:
This declaration is
directed to: The attached application, or
United States application or PCT international application numberfiled on
The above-identified application was made or authorized to be made by me.
Ibelieve that I am the original inventor or an original joint inventor of a claimed invention in the application.
Thereby 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.
ASSIGNMENT
WHEREAS, I, Michael S. Karafotis ("Assignor"), a citizen of the United States (Country), residing in Glen Allen, Virginia (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. 17/011,936 , filed 09/03/2020 ,
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

Active 28781840-1

P: P8490-US

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, 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 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 PT0-2038 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 PT0-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME O	FINVENTOR
Inventor: Michael S. Karafotis	Date: 9/14/2018
Signature: / Michael S. Karafotis /	

P: P8490-US

Title of Invention	ACCESS CONTROL VALUE SYSTEM	
As the below name	edînventor, Ihereby declare that:	
This declaration is directed to:		
5954	filed on	
	ed 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.	
••	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. prisonment of not more than five (5) years, or both.	
	ASSIGNMENT	
United Kingdor the above applic of this assignme	aul G. Roscoe ("Assignor"), a citizen of Great Britain (Country), residing in Treuddyn, n (City, State/Province) have invented the above invention. If the following lines are blank, ation was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal ent, I an assignor below, hereby authorize the attorneys for Bank of America to insert the oplication number below after they become known and prior to filing the recordation.	
U.S. Application	No. 17/011,936 filed 09/03/2020	
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:		
including salary o which is hereby a Assignee, its suc the territory of the in space, {includi	DRE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, or payment for the making of inventions, or employee benefits, the receipt and sufficiency of acknowledged. I said Assignor, by these presents do sell, assign and transfer unto said cessors, assigns and legal representatives, the full and exclusive right, title and interest for e United States of America and all countries foreign thereto, and throughout the world and ing the right to apply for Letters Patent in foreign countries in its own name and to claim any such foreign applications to which such applications are	

P: P8490-US

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, 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. Thereby 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 enforce proper patent protection for said inventions in all countries.

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LEGAL NAME O	F INVENTOR
Inventor: Paul G. Roscoe	Date: 24/09/2018
Signature: / <u>/</u>	

P: P8490-US

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.78)

Title of Invention	ACCESS CONTROL VALUE SYSTEM
msn woled entraA	ed inventor, I hereby declare that:
I belleve that I am	☐ The attached application, or ☐ United States application or PCT international application number filled on ed application was made or authorized to be made by me. the original inventor or an original joint inventor of a claimed invention in the application.
Thereby acknowle 1801 by fine or Imp	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. prisonment of not more than five (5) years, or both.
Plano, Texas (C above application this assignment date and applica U.S. Application WHEREAS, BAN the State of Delan acquiring the enti- Letters Patent th NOW, THEREFC including salary of which is hereby a Assignée, its sud the territory of the in space, (includi	aritha P. Vrittamani ("Assignor"), a citizen of the United States (Country), residing in the States (Province) have invented the above invention. If the following lines are blank, the n was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of it an assignor below, hereby authorize the alterneys for Bank of America to insert the filing attorn number below after they become known and prior to filing the recordation. 17/011,936 [If Id

Active 26781840.1

P: P8490-US

entitied under International conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all hon-provisionals, divisionals, reissues, reexaminations, continuations, continuation-in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential information; and complications, 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 lacts 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 many legal proceedings, sign all lawful papers, make all rightful ouths, 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.

WARNING

Petitioner/applicant is cautioned to avoid submitting personal information in documents: filed in a patent application that may contribute to identity their. 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 incompliance with 37 CFR 1.213(a) ismade 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 1.34). 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

inventor: Saritha P. Vrittamani

Signature:

Date: SEP 24 2018

Active 26781840.1.

P: P8490-US

Title of	ACCESS CONTROL VALUE SYSTEM
Invention	
As the below nam	ed inventor, Thereby declare that
This declaration is	
directed to:	☑ The attached application, or
	United States application or PCT international application number filed on
The above-identifi	ed 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.
	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. prisonment of not more than five (5) years, or both.
	ASSIGNMENT
Godalming, Uni lines are blank, t §3.21 for records	p-Ann Taylor ("Assignor"), a citizen of the United Kingdom (Country), residing in ited Kingdom (City, State/Province) have invented the above invention. If the following he above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. at of this assignment, I an assignor below, hereby authorize the attorneys for Bank of the filing date and application number below after they become known and prior to filing
U.S. Application	No. 17/011,936 filed 09/03/2020
the State of Delay acquiring the enti	K OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of ware, and having its offices and place of business at Charlotte, North Carolina, is desirous of re-right, title and interest in and to the aforesaid inventions and in and to all applications and erefor granted in the United States of America, and in any and all countries foreign thereto:
including salary o which is hereby a Assignee, its suc the territory of the in space, (includi	IRE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, in payment for the making of inventions, or employee benefits, the receipt and sufficiency of acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said cessors, assigns and legal representatives, the full and exclusive right, title and interest for a United States of America and all countries foreign thereto, and throughout the world and ing the right to apply for Letters Patent in foreign countries in its own name and to claim any such foreign applications to which such applications are

P: P8490-US

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, continuations, continuation-in-parts and extensions thereof, and in end 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 caths, 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: Jo-Ann Taylor

Date: 25th September 2018

Aetice 28781899.1

P: P8490-US

Title of	ACCESS CONTROL VALUE SYSTEM		
Invention			
As the below named 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-identified application was made or authorized to be made by me.			
Ibelieve that I am the original inventor or an original joint inventor of a claimed invention in the application.			
Thereby 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.			
	ASSIGNMENT		
WHEREAS, I, Srinivasa D. Madireddi ("Assignor"), a citizen of the United States (Country), residing in Flower Mound, Texas (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 I	No. 17/011,936 filed 09/03/2020		
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			

P: P8490-U5

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, 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 Patenton 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 enforce proper patent protection for said inventions in all countries.

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LEGAL NAME OF I	
Inventor: Srinivasa D. Madireddi	Date: 9/24/2018
Signature://	

P: P8490-US

Title of Invention	ACCESS CONTROL VALUE SYSTEM	
As the below named inventor, Thereby declare that:		
This declaration is		
directed to:	☑ The attached application, or	
	☐ 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.		
Thereby 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.		
	ASSIGNMENT	
WHEREAS, I, Timothy L. Atwell ("Assignor"), a citizen of the United States (Country), residing in Huntersville, North Carolina (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 I	17/011,93609/03/2020	
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 therefo:		
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		

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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, 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. I testify in any legal proceedings, sign all lawful papers, make all rightful caths, 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.

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 PT0-2038 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 incompliance with 37 CFR 1.213(a) ismade 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 1.4). Checks and credit card authorization forms PT0-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Timothy L. Atwell

Signature: /

Date: 1 8 2018

Active 26781840.1

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Title of Invention	ACCESS CONTROL VALUE SYSTEM		
As the below named inventor, I hereby declare that:			
I believe that I am I hereby acknowle	☐ United States application or PCT international application number		
1001 by fine or imp	orisonment of not more than five (5) years, or both.		
WHEREAS, I, Crystal M. Sundaramoorthy ("Assignor"), a citizen of the United States (Country), residing in Charlotte, North Carolina (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, Lan 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. 17/011,936 filed 09/03/2020			
WHEREAS, BAN the State of Delay acquiring the enti-Letters Patent the NOW, THEREFO including salary or which is hereby a Assignee, its succeptive territory of the leterological in space, {including the leterology and the second the	KOF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of vare, and having its offices and place of business at Charlotte, North Carolina, is desirous of re right, title and interest in and to the aforesaid inventions and in and to all applications and erefor granted in the United States of America, and in any and all countries foreign thereto: RE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, repayment for the making of inventions, or employee benefits, the receipt and sufficiency of acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said coessors, assigns and legal representatives, the full and exclusive right, title and interest for a United States of America and all countries foreign thereto, and throughout the world and ang the right to apply for Letters Patent in foreign countries in its own name and to claim any such foreign applications to which such applications are		

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entitied 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, 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, little 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 paths, 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

Date: 9/18/2018 Inventor: Crystal M. Sundaramoorthy

Signature: 1 Crystal Indonwerthy 1

Active 26781846.1

PATENT REEL: 053691 FRAME: 0348

RECORDED: 09/03/2020