505851691 01/07/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5898628

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TERRY L. LEWIS	12/18/2019
ROBERT W. JOHNSTON	01/06/2020
VIVEK VINAYAK MEHENDALE	12/04/2019
JOSE GILBERTO GUERRA-LEAL	12/09/2019
ENJYI E. HANNANS	01/02/2020
COLEEN C. MORGAN	12/23/2019
ROBERT S. HEPLER	12/05/2019
VANESA MITREVSKI	12/05/2019
JOSEPH L. HAYES	01/07/2020

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:	16736594

CORRESPONDENCE DATA

Fax Number: (214)661-4688

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

BAKER BOTTS LLP/BANK OF AMERICA CORPORAT Correspondent Name:

Address Line 1: 2001 ROSS AVENUE

Address Line 2: SUITE 900

Address Line 4: DALLAS, TEXAS 75201

ATTORNEY DOCKET NUMBER: 015444.1506

REEL: 051441 FRAME: 0602 505851691

PAIENI

NAME OF SUBMITTER:	LATOYA JENKINS	
SIGNATURE:	/Latoya Jenkins/	
DATE SIGNED:	01/07/2020	
Total Attachments: 18		
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PATENT REEL: 051441 FRAME: 0603

P: P9388-US

Title of Invention	Intelligent Systems for Identifying Transactions Associated with an Institution Impacted by an Event	
As the below named inventor, I hereby declare that:		
I believe that I am t	☐ United States application or PCT international application number filed 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. dige that any willful false statement made in this declaration is punishable under 18 U.S.C. brisonment of not more than five (5) years, or both.	
North Carolina (the above application of this assignme filing date and ap	ASSIGNMENT rry L. Lewis ("Assignor"), a citizen of the United States (Country), residing in Denver, (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 nt, I an assignor below, hereby authorize the attorneys for Bank of America to insert the plication number below after they become known and prior to filing the recordation. No. 16/736,594 , filed 01/07/2020	
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: P9388-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 OF INVENTOR		
Inventor: Terry L. Lewis	Date: _	12/18/2019
Signature: 1 Terry L Lewis 1		

P: P9388-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 Invention	Intelligent Systems for Identifying Transactions Associated with an Institution Impacted by an Event	
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	
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	
WHEREAS, I Robert W. Johnston ("Assignor"), a citizen of the United States (Country), residing in Ramsey, New Jersey (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.		
	No. 16/736,594 , filed 1/07/2020	
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 43518300.1

P: P9388-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 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.

WARNING

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LEGAL NAME OF INVENTOR

Inventor: Robert W. Johnston

Sinnature:

Date: James 6, 2020

Active 43518300.1

P: P9388-US

1 10 01	Intelligent Systems for Identify Impacted by an Event	ing Transactions	Associated with an Institution
As the below name	ed inventor, Ihereby declare that:		
This declaration is directed to:	☐ The attached applicat	ion, or	
	☐ United States applica filed on		tional application number
The above-identifi	ed application was made or autho	rized to be made b	y me.
Ibelieve that I am	the original inventor or an original	joint inventor of a	claimed invention in the application.
	dge that any willful false statemen prisonment of not more than five (aration is punishable under 18 U.S.C.
WHEREAS, I Vivek Vinayak Mehendale ("Assignor"), a citizen of India (Country), residing in College Grove, Tennessee (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			

P: P9388-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.

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LEGAL NAME OF	INVENTOR
Inventor: Vivek Vinayak Mehendale	Date: 12/04/2019
Signature: //	

P: P9388-US

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

ः सम्बद्धाः ५ प्राप्ताः

Title of	Intelligent Systems for Identifying Transactions Associated with an Institution
Invention	Impacted by an Event
As the below nam	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-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.
Thereby acknowle	dge that any willful false statement made in this declaration is punishable under 18 U.S.C.
-	orisonment of not more than five (5) years, or both.
	ASSIGNMENT
	Δ. 96. 1
WHEREAS, I Jo	se Gilberto Guerra-Leal ("Assignor"), a citizen of Mexico (Country), residing in Forney,
Texas (City, Sta	te/Province) have invented the above invention. If the following lines are blank, the above filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this
application was i	assignor below, hereby authorize the attorneys for Bank of America to insert the filing date
assignment, ran	number below after they become known and prior to filing the recordation.
	16/726 504
U.S. Application I	No. 16/736,594 , filed01/07/2020_
WHEREAS. BAN	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
Letters Patent th	erefor granted in the United States of America, and in any and all countries foreign thereto:
NOW, THEREFO	RE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration,
including salary o	r payment for the making of inventions, or employee benefits, the receipt and sufficiency of
which is berefy	payment for the making of inventions, or employee benefits, the receipt and sufficiency of
Assistant the rest	acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said
Assignee, its suc	cessors, 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, (includii	ng the right to apply for Letters Patent inforeign countries in its own name and to claim any
priority rights for	such foreign applications to which such applications are
	,
	r

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P: P9388-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 fegal 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: Jose Gilberto Guerra-Leal

Date: Dec 9th, 2019

Signature: 1 José Gilberto Guerra-Leal ,

P: P9388-US

Title of Invention	Intelligent Systems for Identifying Transactions Associated with an Institution Impacted by an Event
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 numberfiled on
The above-identifi	ed 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.
•	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
Jacksonville, Fl blank, the above recordal of this a	jyi E. Hannans ("Assignor"), a citizen of the United States (Country), residing in orida (City, State/Province) have invented the above invention. If the following lines are application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for assignment, I an assignor below, hereby authorize the attorneys for Bank of America to attempt and application number below after they become known and prior to filing the
U.S. Application	No. $16/736,594$, filed $01/07/2020$
the State of Delav	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:
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: P9388-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.

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	LEGAL NAME OF INVENTOR		
Inventor: Enjyi E. Hannans		Date: _	01/02/2020
Signature: /Enjyi Hannans			

Firm No.: 015444.1506 P: P9388-US

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

11110 01	Intelligent Systems for Identifying Transactions Associated with an Institution Impacted by an Event			
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			
The above-identific	ed application was made or authorized to be made by me.			
I believe that I am t	he 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. risonment of not more than five (5) years, or both.			
	ASSIGNMENT			
Covington Town following lines are 37 C.F.R. §3.21 fi	leen C. Morgan ("Assignor"), a citizen of the United States (Country), residing in Iship, Pennsylvania (City, State/Province) have invented the above invention. If the blank, the above application was filed on even date herewith, otherwise, to comply with or recordal of this assignment, I an assignor below, hereby authorize the attorneys for to insert the filing date and application number below after they become known and prior dation.			
U.S. Application N	lo. 16/736,594 , filed 01/07/2020			
the State of Delaw acquiring the entir Letters Patent the NOW, THEREFOI including salary or which is hereby a Assignee, its succession.	COF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of are, and having its offices and place of business at Charlotte, North Carolina, is desirous of e right, title and interest in and to the aforesaid inventions and in and to all applications and prefor 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, payment for the making of inventions, or employee benefits, the receipt and sufficiency of eknowledged, 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			
	g the right to apply for Letters Patent inforeign countries in its own name and to claim any uch foreign applications to which such applications are			

P: P9388-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.

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LEGAL NAME OF INVENTOR

Inventor: Coleen C. Morgan

Signature:

Date: 12 23 2019

P: P9388-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	Intelligent Systems for Identifying Transactions Associated with an Institution Impacted by an Event
Invention	impacted by an event
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
The above-identifie	ed application was made or authorized to be made by me.
I believe that I am t	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
Charlotte, North are blank, the abo for recordal of this	bert S. Hepler ("Assignor"), a citizen of the United States (Country), residing in a Carolina (City, State/Province) have invented the above invention. If the following lines ove application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 is assignment, I an assignor below, hereby authorize the attorneys for Bank of America to ate and application number below after they become known and prior to filing the
U.S. Application N	No. 16/736,594, filed, filed
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, 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 sessors, 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 any 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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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 1.4). 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: Robert S. Hepler

 α

Signature:

Date: 12/5/2019

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Intelligent Systems for Identifying Transactions Associated with an Institution Impacted by an Event			
As the below named inventor, I hereby declare that:			
oxtimes The attached application, or			
United States application or PCT international application numberfiled on			
ied 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.			
edge 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			
WHEREAS, I Vanesa Mitrevski ("Assignor"), a citizen of the United States (Country), residing in LaGrange, Illinois (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.			
No. 16/736,594 , filed <u>01/07/2020</u>			
IK 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 ire 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:			
ORE, 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 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			

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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, 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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Inventor: Vanesa Mitrevski Signature: | Vanesa Mitrevski | J

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Title of Intelligent Systems for Identifying Transactions	Associated with an Institution			
Invention Impacted by an Event				
As the below named inventor, I hereby declare that:				
This declaration is				
directed to:				
☐ United States application or PCT interna	tional application number			
The above-identified application was made or authorized to be made b	y 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 declined 1001 by fine or imprisonment of not more than five (5) years, or both.	aration is punishable under 18 U.S.C.			
WHEREAS, I Joseph L. Hayes ("Assignor"), a citizen of the United Charlotte, North Carolina (City, State/Province) have invented the a are blank, the above application was filed on even date herewith, other for recordal of this assignment, I an assignor below, hereby authorized insert the filing date and application number below after they become recordation. U.S. Application No. 16/736,594 , filed — WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporate State of Delaware, and having its offices and place of business at Coacquiring the entire right, title and interest in and to the aforesaid inverted testers Patent therefor granted in the United States of America, and in NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, fincluding salary or payment for the making of inventions, or employee which is hereby acknowledged, I said Assignor, by these presents does assignee, its successors, assigns and legal representatives, the full and the territory of the United States of America and all countries foreign in space, {including the right to apply for Letters Patent in foreign courpriority rights for such foreign applications to which such applications as	above invention. If the following lines erwise, to comply with 37 C.F.R. §3.21 to the attorneys for Bank of America to exhown and prior to filing the one will be a consideration of the charlotte, North Carolina, is desirous of the charlotte, and the and applications and the any and all countries foreign thereto: For good and valuable consideration, benefits, the receipt and sufficiency of sell, assign and transfer unto said dexclusive right, title and interest for the charlotte, and throughout the world and attries in its own name and to claim any			

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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, 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: Josep	h L. Hayes	Date:	01/07/2020
Signature: /	Joseph Hayes/		

Active 43518097.1

RECORDED: 01/07/2020

PATENT REEL: 051441 FRAME: 0621