505636890 08/23/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5683696

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEROME M. ZOTT	11/07/2017
FAISAL AZFAR	11/09/2017
VIJAYA M. ANUSURI	11/09/2017
SRIDHAR RAMASWAMY	11/08/2017
ROBERT J. NICHOLSON	11/09/2017
SITARAM C. YARLAGADDA	11/08/2017

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:	16549123

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: (312) 463-5000

Email: bwptopat@bannerwitcoff.com, aanderson@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:	007131.02167
NAME OF SUBMITTER:	ELIZABETH A. ALMETER
SIGNATURE:	/Elizabeth A. Almeter/
DATE SIGNED:	08/23/2019

505636890 PATENT STATES TO SEEL: 050145 FRAME: 0190

	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 12	
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PATENT REEL: 050145 FRAME: 0191

PMN: 7922US1

Title of Invention	INDEPENDENT STORAGE AND PROCESSING OF DATA WITH CENTRALIZED EVENT CONTROL
As the below	named inventor, I hereby declare that:
This declaration	
	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 of not more than five (5) years, or both.
	ASSIGNMENT
have invented otherwise, to	EROME M. ZOTT ("Assignor"), a citizen of USA (Country), residing in Glastonbury, CT (City, State/Province) I the above invention. If the following lines are blank, the above application was filed on even date herewith, comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the Bank of America to insert the filing date and application number below after they become known and prior to rdation.
	U.S. Application No. <u>15/809683</u> , filed <u>NOVEMBER 10, 2</u> 017
Delaware, and title and inter	NK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of dhaving 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, representative countries for a countries in it entitled under Letters Patentin-parts and econfidential in request the Countries. I republication without furth nominees, an provisional, disproceedings,	FORE, 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 right 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 a granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuation-xtensions 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 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.

WARNING:

purposes are not retained in the application me and therefore a	Te flot publicly available.
LEGAL NAME OF INVENTOR	
Inventor: JEROME M. ZOTT	Date:11/7/2017
Signature: / Jeromo	

PMN: 7922US1

Title of Invention	INDEPENDENT STORAGE AND PROCESSING OF DATA WITH CENTRALIZED EVENT CONTROL
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-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 of not more than five (5) years, or both.
	ASSIGNMENT
invented the otherwise, to	FAISAL AZFAR ("Assignor"), a citizen of USA (Country), residing in Austin, TX (City, State/Province) have above invention. If the following lines are blank, the above application was filed on even date herewith, comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the Bank of America to insert the filing date and application number below after they become known and prior to rdation.
	U.S. Application No. <u>15/809683</u> , filed <u>NOVEMBER 10, 2</u> 017
Delaware, and title and inter	NK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of dhaving 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 for a countries in it entitled under Letters Patent in-parts and a confidential in request the Countries or interest. I rep without furth nominees, an provisional, d proceedings,	FORE, 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 eign 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 a granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuation-xtensions 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 domains 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 ser 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.

WARNING:

parposes are not retained in the application in and the creation	ne nee pasier, arangerer
LEGAL NAME OF INVENTOR	
Inventor: FAISAL AZFAR	Date:11/9/2017
Signature:/ Faisal Azfar	

PMN: 7922US1

Title of Invention	INDEPENDENT STORAGE AND PROCESSING OF DATA WITH CENTRALIZED EVENT CONTROL
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-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 tof not more than five (5) years, or both.
	ASSIGNMENT
State/Province date herewith authorize the	VIJAYA M. ANUSURI ("Assignor"), a citizen of USA (Country), residing in Charlotte, NC (City, e) have invented the above invention. If the following lines are blank, the above application was filed on even a, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby attorneys for Bank of America to insert the filing date and application number below after they become rior to filing the recordation.
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Delaware, and title and inter	NK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of d 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 for a countries in it entitled under Letters Patent in-parts and a confidential in request the Countries or interest. I rep without furth nominees, an provisional, d proceedings,	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 eign 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 transfer therefor, and all non-provisionals, divisionals, reissues, reexaminations, 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 dommissioner 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.

WARNING:

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LEGAL NAME OF INVENTOR	
Inventor: VIJAYA M. ANUSURI	Date:
Signature: / vijay m anusuri	

PMN: 7922US1

Title of Invention	INDEPENDENT STORAGE AND PROCESSING OF DATA WITH CENTRALIZED EVENT CONTROL
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-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 of not more than five (5) years, or both.
	ASSIGNMENT
State/Province date herewith authorize the	GRIDHAR RAMASWAMY ("Assignor"), a citizen of India (Country), residing in Charlotte , NC (City, e) have invented the above invention. If the following lines are blank, the above application was filed on even a, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby attorneys for Bank of America to insert the filing date and application number below after they become ior to filing the recordation.
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Delaware, and title and inter	NK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of dhaving 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, representative countries for a countries in it entitled under Letters Patentin-parts and econfidential in request the Countries. I republished without further nominees, and provisional, differential proceedings,	FORE, 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 eign 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 a granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuation-xtensions 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 commissioner 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 second 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.

WARNING:

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LEGAL NAME OF INVENTOR					
Inventor: SRIDHAR RAMASWAMY	Date:11/08/2017				
Signature: Sridhar Ramaswamy					

PMN: 7922US1

Title of Invention	INDEPENDENT STORAGE AND PROCESSING OF DATA WITH CENTRALIZED EVENT CONTROL
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I believe that	I am the original inventor or an original joint inventor of a claimed invention in the application.
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State/Province date herewith authorize the	ROBERT J. NICHOLSON ("Assignor"), a citizen of USA (Country), residing in Charlotte, NC (City, e) have invented the above invention. If the following lines are blank, the above application was filed on even a, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby attorneys for Bank of America to insert the filing date and application number below after they become ior to filing the recordation.
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payment for the said Assignor, representative countries for a countries in it entitled under Letters Patentin-parts and econfidential in request the Countries. I republished without further nominees, and provisional, differential proceedings,	FORE, 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 eign 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 a granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuation-xtensions 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 commissioner 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 second 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.

WARNING:

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LEGAL NAME OF INVENTOR				
Inventor: ROBERT J. NICHOLSON	Date: 11/09/2017			
Signature: / Robert J. Nicholson	/			

PMN: 7922US1

Title of Invention	INDEPENDENT STORAGE AND PROCESSING OF DATA WITH CENTRALIZED EVENT CONTROL
As the below	named inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
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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.
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	ASSIGNMENT
State/Province date herewith authorize the	SITARAM C. YARLAGADDA ("Assignor"), a citizen of India (Country), residing in Belmont, NC (City, e) have invented the above invention. If the following lines are blank, the above application was filed on even a, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby attorneys for Bank of America to insert the filing date and application number below after they become fior to filing the recordation.
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payment for the said Assignor, representative countries for a countries in it entitled under Letters Patentin-parts and econfidential in request the Countries. I republished without further nominees, and provisional, differential proceedings,	FORE, 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 eign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign s 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 t granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuation-xtensions 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 execute all non-invisional, 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.

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.

purposes are not retained in the application me and therefore are not publicly available.				
LEGAL NAME OF INVENTOR				
Inventor: SITARAM C. YARLAGADDA	Date:11/08/2017			
Signature: / / R. Carrier				

RECORDED: 08/23/2019

PATENT REEL: 050145 FRAME: 0203