### 506788981 07/28/2021

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6835800

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
DANIEL EBENEZER	07/27/2021
DILIP RAJA	07/27/2021
GIRIDHAR NAKKALA	07/28/2021
JON W GULICKSON	07/27/2021
YADAV KHANAL	07/27/2021
MIRANDA CARR	07/27/2021

### **RECEIVING PARTY DATA**

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17387120

### **CORRESPONDENCE DATA**

Fax Number: (845)362-6111

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.

Email: iweiss@weissarons.com Correspondent Name: WEISS AND ARONS LLP **63 SOUTH MAIN STREET** Address Line 1:

Address Line 4: SPRING VALLEY, NEW YORK 10977

ATTORNEY DOCKET NUMBER:	104-723
NAME OF SUBMITTER:	CHANA STEIN
SIGNATURE:	/Chana Stein/
DATE SIGNED:	07/28/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

**PATENT REEL: 057004 FRAME: 0919** 

# Total Attachments: 12 source=104-723\_Assignments\_Declarations\_as\_filed#page1.tif source=104-723\_Assignments\_Declarations\_as\_filed#page2.tif source=104-723\_Assignments\_Declarations\_as\_filed#page3.tif source=104-723\_Assignments\_Declarations\_as\_filed#page4.tif source=104-723\_Assignments\_Declarations\_as\_filed#page5.tif source=104-723\_Assignments\_Declarations\_as\_filed#page6.tif source=104-723\_Assignments\_Declarations\_as\_filed#page7.tif source=104-723\_Assignments\_Declarations\_as\_filed#page8.tif source=104-723\_Assignments\_Declarations\_as\_filed#page9.tif source=104-723\_Assignments\_Declarations\_as\_filed#page10.tif source=104-723\_Assignments\_Declarations\_as\_filed#page11.tif source=104-723\_Assignments\_Declarations\_as\_filed#page12.tif

PATENT REEL: 057004 FRAME: 0920

# 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	DELTA DATABASE DATA PROVISIONING
As the below	named inventor, I hereby declare that:
This declaration directed to:	on is 🕜 The attached application, or
	United States application or PCT international application number
The above-ide	ntified application was made or authorized to be made by me.
I believe that	am the original inventor or an original joint inventor of a claimed invention in the application.
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or of not more than five (5) years, or both.
	ASSIGNMENT
invention. If t 37 C.F.R. §3.2	vaniel Ebenezer ("Assignor"), a citizen of India, residing in Simi Valley, California have invented the above the following lines are blank, the above application was filed on even date herewith, otherwise, to comply with for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to gate and application number below after they become known and prior to filing the recordation.
	U.S. Application No. 17/387,120 filed 07/28/2021
Delaware, and title and interes	NK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, est in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the of America, and in any and all countries foreign thereto:
payment for the said Assignor, representative foreign thereto its own name international commissioner resulting there and warrant the consideration, all facts known reissue, reexampapers, make in said Assignor and the consideration, all facts known reissue, reexampapers, make its said Assignor and the consideration, all facts known reissue, reexampapers, make its said Assignor and Assignor an	ORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I be possible to sell, assign and transfer unto said Assignee, its successors, assigns and legal is, the full and exclusive right, title and interest for the territory of the United States of America and all countries on throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in and to claim any priority rights for such foreign applications to which such applications are entitled under conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent or, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-in-parts and reof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or from to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent at I have full right to agree to, execute, and deliver this assignment. I agree that I will without further but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, nination, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful till rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and btain and enforce proper patent protection for said inventions in all countries.

### WARNING:

retained in the application file and therefore are not publicly avail	ilable.	
LEGAL NAME OF INVENTOR		******
Inventor: Daniel Ebenezer	Date:	
Signature: Factorise A4249E.		

# 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	DELTA DATABASE DATA PROVISIONING
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-identified	application was made or authorized to be made by me.
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
	te that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or more than five (5) years, or both.
	ASSIGNMENT
invention. If the foll 37 C.F.R. §3.21 for re	ija ("Assignor"), a citizen of the <b>United States</b> , residing in <b>Simi Valley, California</b> have invented the above owing lines are blank, the above application was filed on even date herewith, otherwise, to comply with ecordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to and application number below after they become known and prior to filing the recordation.
	U.S. Application No. 17/387,120 , filed 07/28/2021
Delaware, and havin title and interest in a	AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of g its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the erica, and in any and all countries foreign thereto:
payment for the mal said Assignor, by the representatives, the foreign thereto, and its own name and to international convengranted therefor, an extensions thereof, a information, and cor Commissioner of Pat resulting therefrom I and warrant that I had consideration, but at all facts known to me reissue, reexaminating papers, make all righ	O WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or ting of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I see presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal full and exclusive right, title and interest for the territory of the United States of America and all countries throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in claim any priority rights for such foreign applications to which such applications are entitled under tions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent d all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-in-parts and and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential inpilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the ents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or to said Assignee, or its successors and assigns, as assignment. I agree that I will without further the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and a regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, on, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful titul oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and and enforce proper patent protection for said inventions in all countries.

### WARNING:

retained in the application file and therefore are not publicly availa	**************************************
LEGAL NAME OF INVENTOR	
Inventor: <u>Dilip Raja</u>	Date:
Signature: <u>Olip Kaja</u>	

## 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	DELTA DATABASE DATA PROVISIONING
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
The above-identified	application was made or authorized to be made by me.
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
	e that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or more than five (5) years, or both.
	ASSIGNMENT
invented the above i otherwise, to comply	r Nakkala ("Assignor"), a citizen of the United States of America, residing in Simi Valley, California have invention. If the following lines are blank, the above application was filed on even date herewith, with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys to insert the filing date and application number below after they become known and prior to filing the
	U.S. Application No. 17/387,120 , filed 07/28/2021
Delaware, and having title and interest in a	AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of gits offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the crica, and in any and all countries foreign thereto:
payment for the mak said Assignor, by their representatives, the foreign thereto, and its own name and to international convening ranted therefor, and extensions thereof, a information, and con Commissioner of Patresulting therefrom thand warrant that I had consideration, but at all facts known to me reissue, reexamination papers, make all right	O WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or ing of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I see presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal full and exclusive right, title and interest for the territory of the United States of America and all countries throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in claim any priority rights for such foreign applications to which such applications are entitled under tions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent I all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-in-parts and not in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential applications, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the ents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or or said Assignee, or its successors and assigns, as assigneent. I agree that I will without further the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, and, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful and send generally do everything reasonable for said Assignee, its successors, assigns, and and send generally do everything reasonable for said Assignee, its successors, assigns, and

### WARNING:

recomed in the application the and therefore are not publicly avail	aute.
LEGAL NAME OF INVENTOR	
Inventor: Giridhar Nakkala	Date:
Signature: Giriduar Nakkala /	

# 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	DELTA DATABASE DATA PROVISIONING
As the below name	d 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	d application was made or authorized to be made by me.
I believe that I am tl	ne original inventor or an original joint inventor of a claimed invention in the application.
	ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or t more than five (5) years, or both.
	ASSIGNMENT
have invented the a otherwise, to compl	Gulickson ("Assignor"), a citizen of the United States of America, residing in Indian Trail, North Carolina bove invention. If the following lines are blank, the above application was filed on even date herewith, y with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys to insert the filing date and application number below after they become known and prior to filing the
	U.S. Application Nofiledfiledfiled
Delaware, and havir title and interest in a	AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of ig its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the erica, and in any and all countries foreign thereto:
payment for the ma said Assignor, by the representatives, the foreign thereto, and its own name and to international conver granted therefor, an extensions thereof, a information, and con Commissioner of Pat resulting therefrom and warrant that I had consideration, but at all facts known to me reissue, reexaminati papers, make all righ	WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or king of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I use presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal full and exclusive right, title and interest for the territory of the United States of America and all countries throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in claim any priority rights for such foreign applications to which such applications are entitled under nations, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent d all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-in-parts and and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential implications, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the tents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or to said Assignee, or its successors and assigns, as assignment. I agree that I will without further the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and a regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, on, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful and enforce proper patent protection for said inventions in all countries.

### WARNING:

	recomes in the application me and therefore are not publicly avail-		·····
	LEGAL NAME OF INVENTOR		
			7/07/2001
	Inventor: Jan W. Gulickson	Date:	7/27/2021
1	CompacuSigned by:		
1	Signature: Jon W. Gulickson		
-	\$0F\$1M8399M7ACF.		

# 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	DELTA DATABASE DATA PROVISIONING					
As the below name	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-identified	The above-identified application was made or authorized to be made by me.					
I believe that I am tl	ne original inventor or an original joint inventor of a claimed invention in the application.					
I hereby 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, Yadav Khanal ("Assignor"), a citizen of the United States of America, residing in McKinney, Texas 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. 17/387,120 , filed 07/28/2021					
WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:						
NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, 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						

### WARNING:

retained in the application file and therefore are not publicly availa	ble.
LEGAL NAME OF INVENTOR	
inventor: Yadav Khanal	Date: 7/27/2021
Signature:   Signa	

# 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	DELTA DATABASE DATA PROVISIONING					
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The above-identified	The above-identified application was made or authorized to be made by me.					
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.					
I hereby 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, Miranda Carr ("Assignor"), a citizen of the United States of America, residing in Agoura Hills, California 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. 17/387,120 , filed 07/28/2021					
WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:						
NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, 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						

### 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.

retained in the application file and therefore are not publicly	available.
LEGAL NAME OF INVENTOR	
	7/27/2021
Inventor: Miranda Carr	Date:
DoouSigned by:	
Signature: / Nuraw.la Larr /	
SFF09U0AGHF9F840	

RECORDED: 07/28/2021