PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7133283

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PATRICK THOMAS MCCONNELL	04/22/2019
STEVEN MICHAEL TWOMBLY	04/22/2019
JAMES J. WILLIAMS	04/23/2019
MATTHEW MURPHY	04/22/2019
WILLIAM BRADLEY BURKS	04/22/2019
STEPHEN PHILIP SELFRIDGE	04/26/2019
THOMAS ELLIOTT	04/22/2019
JUSTIN RILEY DUPONT	04/24/2019
DANIEL JAMES DOHERTY	04/24/2019
TONY ENGLAND	04/29/2019
NICKOLAS PATRICK PARKER	04/30/2019

RECEIVING PARTY DATA

Name:	BANK OF AMERICA CORPORATION
Street Address:	MAILCODE: NC1-028-29-04
Internal Address:	ONE BANK OF AMERICA CENTER, 150 N. COLLEGE STREET
City:	CHARLOTTE
State/Country:	NORTH CAROLINA
Postal Code:	28255

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17580957

CORRESPONDENCE DATA

(704)331-1159 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: 704-331-3621

Email: jansnider@mvalaw.com, iplaw@mvalaw.com,

bacdocket@mvalaw.com

Correspondent Name: BANK OF AMERICA C/O MOORE AND VAN ALLEN,

Address Line 1: 100 NORTH TRYON STREET

PATENT

REEL: 058802 FRAME: 0464 507086447

Address Line 2: SUITE 4700

Address Line 4: CHARLOTTE, UNITED STATES 28202

ATTORNEY DOCKET NUMBER:	8966US2.014033.4280
NAME OF SUBMITTER:	THOMAS R. PARKER II
SIGNATURE:	/Thomas R. Parker II/
DATE SIGNED:	01/21/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 33

source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page1.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page2.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page3.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page4.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page5.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page6.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page7.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page8.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page9.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page10.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page11.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page12.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page13.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page14.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page15.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page16.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page17.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page18.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page19.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page20.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page21.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page22.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page23.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page24.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page25.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page26.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page27.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page28.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page29.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page30.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page31.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page32.tif source=8966US2-4280-CombinedDeclaration-Assignment-Filed-1-21-2022#page33.tif

> PATENT REEL: 058802 FRAME: 0465

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	[7] 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 to fine than five (5) years, or both.
	ASSIGNMENT
Huntersville, application(s) with 37 C.F.R	Patrick Thomas McConnell ("Assignor"), a citizen of the United States of America (Country), residing in North Carolina (City, State/Province) have invented the invention(s) described in the below listed. If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of sert the filing date and application number(s) below after they become known and prior to filing the
Delaware, an title and inter	U.S. Application No. 16/399,874 , filed April 30, 2019 U.S. Application No. 17/580,957 , filed January 21, 2022 . ANK 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, rest 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 said Assignor representative countries for countries in it entitled under Letters Patent continuations secrets, configuthorize and Patent on sairight, title an agree that I visuccessors, a will execute a testify in any	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 res, the full and exclusive right, title and interest for the territory of the United States of America and all eight thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign ts own name and to claim any priority rights for such foreign applications to which such applications are international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and t granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, reviews, continuations, in-in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade dential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby direquest the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters dinventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire dinterest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its ssigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for e, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all

WARNING:

LEGAL NAME OF INVENTOR		
Inventor: PATRICK THOMAS MCCONNEY	Date: 4/22/19	-
Signature:		

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declaration is directed to:	
	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.
	by b
	ASSIGNMENT
Maine (City, S lines are blan recordal of th	Steven Michael Twombly ("Assignor"), a citizen of the United States of America (Country), residing in Saco, tate/Province) have invented the invention(s) described in the below listed application(s). If the following k, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for is assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing date on number(s) below after they become known and prior to filing the recordation.
Delaware, and title and inter	U.S. Application No. 16/399,874 , filed April 30, 2019 . U.S. Application No. 17/580,957 , filed January 21, 2022 . 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 countries in it entitled under Letters Patent continuations ecrets, confinauthorize and Patent on said right, title and agree that I was successors, as will execute a testify in any	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 sown 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 granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, reviews, continuations, in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade dential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby I request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters dinventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire dinterest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its signs, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I Il non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all

PMN: 8966US1

WARNING:

purposes are not retained in the application file and therefore a	re not publicly available.
LEGAL NAME OF INVENTOR	
Inventor: STEVEN MICHAEL TWOMBLY Signature: Wen Wombh	Date: 4/22/19

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	The attached application, or
	United States application or PCT international application number
The above-id	entified application was made or authorized to be made by me.
I believe that	I am the original inventor or an original joint inventor of a claimed invention in the application.
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or t of not more than five (5) years, or both.
	ASSIGNMENT
University, Pe the following §3.21 for reco	James J. Williams ("Assignor"), a citizen of the United States of America (Country), residing in Lincoln ennsylvania (City, State/Province) have invented the invention(s) described in the below listed application(s). If lines are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. ordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the d application number(s) below after they become known and prior to filing the recordation.
Delaware, an title and inter	U.S. Application No. 16/399,874 , filed April 30, 2019 U.S. Application No. 17/580,957 , filed January 21, 2022 ANK 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, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the sof America, and in any and all countries foreign thereto:
payment for said Assignor representative countries for countries in it entitled under Letters Patent continuation secrets, configuthorize and Patent on said right, title and agree that I was successors, a will execute a testify in any	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 res, the full and exclusive right, title and interest for the territory of the United States of America and all leign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign ts own name and to claim any priority rights for such foreign applications to which such applications are en international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and it granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, reviews, continuations, in-in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby direquest the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters divinentions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire dinterest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its ssigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for expressions.

PMN: 8966US1

WARNING:

purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR	
Inventor: JAMES J. WILLIAMS	Date: 4/23/2019
Signature: \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	IN THE attached application, or
	United States application or PCT international application number
The above-id	entified application was made or authorized to be made by me.
I believe that	I am the original inventor or an original joint inventor of a claimed invention in the application.
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or t of not more than five (5) years, or both.
	ASSIGNMENT
Carolina (City lines are blar recordal of th	Matthew Murphy ("Assignor"), a citizen of the United States of America (Country), residing in Charlotte, North s, State/Province) have invented the invention(s) described in the below listed application(s). If the following k, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for his assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing date on number(s) below after they become known and prior to filing the recordation.
Delaware, ar title and inte	U.S. Application No. 16/399,874 , filed April 30, 2019 U.S. Application No. 17/580,957 , filed January 21, 2022 . ANK 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, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the s of America, and in any and all countries foreign thereto:
payment for said Assignor representative countries for countries in entitled und Letters Pater continuation secrets, confiauthorize an Patent on saright, title ar agree that I successors, awill execute testify in any	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, It, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal yes, 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 ts own name and to claim any priority rights for such foreign applications to which such applications are er international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and at granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, reviews, continuations, -in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade idential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby direquest the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters id inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire id interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, relegal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for e, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all

PMN: 8966US1

WARNING:

LEGAL NAME OF INVENTOR	
Inventor: MATTHEW MURPHY	Date: 4/22/19
Signature: January	

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	IN 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 t of not more than five (5) years, or both.
	ASSIGNMENT
North Carolin following line for recordal of	William Bradley Burks ("Assignor"), a citizen of the United States of America (Country), residing in Charlotte, a (City, State/Province) have invented the invention(s) described in the below listed application(s). If the s are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing lication number(s) below after they become known and prior to filing the recordation.
Delaware, an title and inte	U.S. Application No. 16/399,874 , filed April 30, 2019 U.S. Application No. 17/580,957 , filed January 21, 2022 . ANK 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, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the sof 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, reviews, 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 gene	

WARNING:

purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR	
Inventor: WILLIAM BRADLEY BURKS	Date: 4-22-2019
1.1.1.	
Signature: William B. Burks	

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	The attached application, or
	United States application or PCT international application number
The above-id	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 to foot more than five (5) years, or both.
 	ASSIGNMENT
Huntersville, application(s with 37 C.F.R	Stephen Philip Selfridge ("Assignor"), a citizen of the United States of America (Country), residing in North Carolina (City, State/Province) have invented the invention(s) described in the below listed If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of sert the filing date and application number(s) below after they become known and prior to filing the
Delaware, an title and inte	U.S. Application No. 16/399,874 filed April 30, 2019 U.S. Application No. 17/580,957 filed January 21, 2022 ANK 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, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the sof 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, reviews, 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 gene	

PMN: 8966US1

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: STEPHEN PHILIP SELFRIDGE

Date: 4/26/19

Cianatura

[Page 2 of 3]

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declaration	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 to fine than five (5) years, or both.
	ASSIGNMENT
California (Cit lines are blan recordal of th	Thomas Elliott ("Assignor"), a citizen of the United States of America (Country), residing in Redwood City, cy, State/Province) have invented the invention(s) described in the below listed application(s). If the following k, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for his assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing date on number(s) below after they become known and prior to filing the recordation.
Delaware, an title and inte	U.S. Application No. 16/399,874 , filed April 30, 2019 U.S. Application No. 17/580,957 , filed January 21, 2022 . ANK 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, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the s 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, reviews, 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 gene	

WARNING:

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LEGAL NAME OF INVENTOR

Inventor: THOMAS ELLIOTT

Signature: _

Date: Apr 22 2019

[Page 2 of 3]

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	The attached application, or
	United States application or PCT international application number
The above-id	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 to fine the fire (5) years, or both.
	ASSIGNMENT
North Carolir following line for recordal o	Justin Riley duPont ("Assignor"), a citizen of the United States of America (Country), residing in Charlotte, na (City, State/Province) have invented the invention(s) described in the below listed application(s). If the es are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing discation number(s) below after they become known and prior to filing the recordation.
Delaware, ar title and inte	U.S. Application No. 16/399,874 , filed April 30, 2019 . U.S. Application No. 17/580,957 , filed January 21, 2022 . ANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of ad having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the s 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, reviews, 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 gene	

WARNING:

purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR	
WAREN BURNEY BURNEY	Date: 4/24/2019
Inventor: JUSTIN RILEY DUPONT	Date:
Signature: Justin R. dufont	

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	
	United States application or PCT international application number
The above-id	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 to fine than five (5) years, or both.
	ASSIGNMENT
North Carolir following line for recordal o	Daniel James Doherty ("Assignor"), a citizen of the United States of America (Country), residing in Huntersville, ia (City, State/Province) have invented the invention(s) described in the below listed application(s). If the is are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing lication number(s) below after they become known and prior to filing the recordation.
Delaware, ar title and inte	U.S. Application No. 16/399,874 , filed April 30, 2019 . U.S. Application No. 17/580,957 , filed January 21, 2022 . ANK 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, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the s 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, reviews, 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 gene	

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LEGAL NAME OF INVENTOR

Inventor: DANIEL JAMES DOHERTY

Date: 4/44/

Signatura:

[Page 2 of 3]

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	/\ The attached application, or
	United States application or PCT international application number
The above-id	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.
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or at of not more than five (5) years, or both.
	ASSIGNMENT
Carolina (City lines are blar recordal of tl	Tony England ("Assignor"), a citizen of the United States of America (Country), residing in Tega Cay, South v, State/Province) have invented the invention(s) described in the below listed application(s). If the following ask, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for his assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing date on number(s) below after they become known and prior to filing the recordation.
Delaware, ar title and inte	U.S. Application No. 16/399,874 , filed April 30, 2019 U.S. Application No. 17/580,957 , filed January 21, 2022 . ANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of ad having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, rest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the s 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, reviews, 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 gene	

PMN: 8966US1

WARNING:

LEGAL NAME OF INVENTOR	a no pository distribute.
Inventor: TONY ENGLAND	Date: 4/29/19
Signature: Jan Snyland	

PMN: 8966US1

Title of Invention	RESOURCE DISTRIBUTION HUB GENERATION ON A MOBILE DEVICE
As the below	named inventor, I hereby declare that:
This declarati	[X] The attached application, or
	United States application or PCT international application number
The above-id	entified application was made or authorized to be made by me.
I believe that	I am the original inventor or an original joint inventor of a claimed invention in the application.
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or t of not more than five (5) years, or both.
-	ASSIGNMENT
WHEREAS, I, Nickolas Patrick Parker ("Assignor"), a citizen of the United States of America (Country), residing in Charlotte, North Carolina (City, State/Province) have invented the invention(s) described in the below listed application(s). 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(s) below after they become known and prior to filing the recordation.	
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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, reviews, 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 gene	

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LEGAL NAME OF INVENTOR

Inventor: NICKOLAS PATRICK PARKER-

Date:

4/30/1

Signature:

[Page 2 of 3]