506910077 10/07/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6956902

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TYLER MAIMAN	10/06/2021
DAVID SEPTIMUS	10/06/2021
DANIEL MILLER	10/06/2021
SAMUEL RAPOWITZ	10/06/2021
JENNY MELENDEZ	10/06/2021
VIRAJ CHAUDHARY	10/06/2021
JOSHUA EDWARDS	10/06/2021

RECEIVING PARTY DATA

Name:	CAPITAL ONE SERVICES, LLC	
Street Address:	1680 CAPITAL ONE DRIVE	
City:	MCLEAN	
State/Country:	VIRGINIA	
Postal Code:	22102	

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	17495365			

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: (202) 824-3000

Email: bwptopat@bannerwitcoff.com, jrivera@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:	009033.00380\US		
NAME OF SUBMITTER:	YONGMEI MICHELLE ZHANG		
SIGNATURE:	/Yongmei Zhang/		
DATE SIGNED:	10/07/2021		

506910077 REEL: 057726 FRAME: 0885

Total Attachments: 7 source=P08840-US_Assignment - all inventors#page1.tif source=P08840-US_Assignment - all inventors#page2.tif source=P08840-US_Assignment - all inventors#page3.tif source=P08840-US_Assignment - all inventors#page4.tif source=P08840-US_Assignment - all inventors#page5.tif source=P08840-US_Assignment - all inventors#page6.tif source=P08840-US_Assignment - all inventors#page7.tif

COMBINED PATENT DECLARATION AND ASSIGNMENT

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TITLE OF INVENTION:	FAVORITE MERCHANTS SELECTION IN TRANSACTION BASED AUTHENTICATION			
	DECL	ARATION		
As the below named invent	or, I hereby declare that:			
 This declaration is directed to: 	☐ The attached app	ication, or		
	☐ United States app number	lication or PCT international applicationfiled on		
I believe that I amI hereby acknowled		ginal joint inventor of a claimed invention in the application. ment made in this declaration is punishable under 18 U.S.C.		
	ASSIG	GNMENT		
WHEREAS , I, the below nam application number and filing	· ·	nvented the above invention, having the following		
U.S. App	plication No. <u>17/495,365</u>	, filedOctober 6, 2021		
		eys for Assignee to insert the filing date and application d prior to recording this document.		
WHEREAS, Capital One Services, LLC ("Assignee"), a Corporation having offices and a place of business at 1680 Capital One Drive, McLean, Virginia 22102, 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:				
salary and/or payment for the hereby acknowledged, I said assigns and legal represents America and all countries for Letters Patent in foreign countries such applications are and in and to all application reexaminations, continuations.	the making of inventions, or ed Assignor, by these presents atives, the full and exclusive ripreign thereto, and throughou untries in its own name and the entitled under international as and Letters Patent granted ons, continuation-in-parts and	nown that, for good and valuable consideration, including mployee benefits, the receipt and sufficiency of which is do sell, assign and transfer unto said Assignee, its successors, ght, title and interest for the territory of the United States of at the world and in space, (including the right to apply for o claim any priority rights for such foreign applications to conventions, treaties, or otherwise), in and to said inventions therefor, and all non-provisionals, divisionals, reissues, extensions thereof, and in and to all copyrights, trademarks information, and compilations, necessary or useful to make,		
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.				
successors, assigns, or nominate I will execute all non-prapplications, testify in any lo	inees, any and all facts knowr rovisional, divisional, reissue, egal proceedings, sign all lawf aid Assignee, its successors, a	e expense of Assignee, communicate to said Assignee, or its to me regarding said inventions whenever requested, and reexamination, continuation and continuation-in-part ul papers, make all rightful oaths, and generally do ssigns, and nominees, to obtain and enforce proper patent		
INVENTOR/ASSIGNOR				
Legal Name: <u>Tyler Ma</u>	<u>iman</u>			
Address: c/o Capit	al One Services, LLC, 1680	Capital One Drive, McLean, Virginia 22102		
	DocuSigned by:	10/6/2021		
Signature: /		/ Date:		

COMBINED PATENT DECLARATION AND ASSIGNMENT

COMBINED LATERY DECEMBATION AND ASSIGNMENT				
TITLE OF INVENTION: FAVORITE MERCHANTS SELECTION IN TRANSACTION BASED AUTHENTICATION				
DECLARATION				
As the below named inventor, I hereby declare that:				
 This declaration				
United States application or PCT international application numberfiled on				
 The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. 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, the below named Inventor/Assignor, have invented the above invention, having the following application number and filing date:				
U.S. Application No. <u>17/495,365</u> , filed <u>October 6, 2021</u> .				
If the above lines are blank, I hereby authorize the attorneys for Assignee to insert the filing date and application number immediately above after they become known and prior to recording this document.				
WHEREAS, Capital One Services, LLC ("Assignee"), a Corporation having offices and a place of business at 1680 Capital One Drive, McLean, Virginia 22102, 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 and/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 everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.				
INVENTOR/ASSIGNOR:				
Legal Name: <u>Joshua Edwards</u>				
Address: c/o Capital One Services, LLC, 1680 Capital One Drive, McLean, Virginia 22102				
Signature: / bolivia Fdwards / Date:				

COMBINED PATENT DECLARATION AND ASSIGNMENT

TITLE OF INVENTION: FAVORITE MERCHANTS SELECTION IN TRANSACTION BASED AUTHENTICATION					
	DECLARATION				
As the below named invento	or, I hereby declare that:				
 This declaration is directed to: 	☐ The attached application, or				
	☐ United States application or PCT international application number				
I believe that I am tI hereby acknowled	ed application was made or authorized to be made by me. the original inventor or an original joint inventor of a claimed invention in the application. dge that any willful false statement made in this declaration is punishable under 18 U.S.C. orisonment of not more than five (5) years, or both.				
	ASSIGNMENT				
WHEREAS , I, the below nam application number and filir	ned Inventor/Assignor, have invented the above invention, having the following ng date:				
U.S. App	olication No. <u>17/495,365</u> , filed <u>October 6, 2021</u> .				
	I hereby authorize the attorneys for Assignee to insert the filing date and application after they become known and prior to recording this document.				
One Drive, McLean, Virginia	WHEREAS, Capital One Services, LLC ("Assignee"), a Corporation having offices and a place of business at 1680 Capital One Drive, McLean, Virginia 22102, 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:				
salary and/or payment for thereby acknowledged, I said assigns and legal representations are and all countries for Letters Patent in foreign countries which such applications are and in and to all application reexaminations, continuations	DM IT MAY CONCERN, be it known that, for good and valuable consideration, including the making of inventions, or employee benefits, the receipt and sufficiency of which is disciplant Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, attives, the full and exclusive right, title and interest for the territory of the United States of preign thereto, and throughout the world and in space, (including the right to apply for untries in its own name and to claim any priority rights for such foreign applications to entitled under international conventions, treaties, or otherwise), in and to said inventions and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, ons, continuation-in-parts and extensions thereof, and in and to all copyrights, trademarks will, trade secrets, confidential information, and compilations, necessary or useful to make,				
I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment.					
I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.					
INVENTOR/ASSIGNOR:					
Legal Name: <u>Daniel M</u>					
	al One Services, LLC, 1680 Capital One Drive, McLean, Virginia 22102				
Signature: /	DocuSigned by: 10/6/2021				

COMBINED PATENT DECLARATION AND ASSIGNMENT

TITLE OF INVENTION: FAVORITE MERCHANTS SELECTION IN TRANSACTION BASED AUTHENTICATION				
	DECLARATION			
As the below named invento	or, I hereby declare that:			
 This declaration is directed to: 	☐ The attached application, or			
	United States application or PCT international application number			
I believe that I am tI hereby acknowled	ed application was made or authorized to be made by me. the original inventor or an original joint inventor of a claimed invention in the application. dge that any willful false statement made in this declaration is punishable under 18 U.S.C. prisonment of not more than five (5) years, or both.			
	ASSIGNMENT			
WHEREAS , I, the below nam application number and filin	ned Inventor/Assignor, have invented the above invention, having the following ng date:			
U.S. App	olication No. <u>17/495,365</u> , filed <u>October 6, 2021</u> .			
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NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary and/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 everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.				
INVENTOR/ASSIGNOR:				
Legal Name: <u>Samuel R</u>	<u>apowitz</u>			
Address: <u>c/o Capital One Services, LLC, 1680 Capital One Drive, McLean, Virginia 22102</u>				
Signaturo: /	Campul Raphvites / Date:			

COMBINED PATENT DECLARATION AND ASSIGNMENT

TITLE OF INVENTION: FAVORITE MERCHANTS SELECTION IN TRANSACTION BASED AUTHENTICATION				
DECLARATION				
As the below named inventor, I hereby declare that:				
 This declaration				
United States application or PCT international application numberfiled on				
 The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. 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. 				
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INVENTOR/ASSIGNOR:				
Legal Name: <u>Jenny Melendez</u>				
Address: <u>c/o Capital One Services, LLC, 1680 Capital One Drive, McLean, Virginia 22102</u>				
Signature: / Juny Mulendry / Date: 10/6/2021				

COMBINED PATENT DECLARATION AND ASSIGNMENT

TITLE OF INVENTION:	FAVORITE MERCHANTS SELECTION IN TRANSACTION BASED AUTHENTICATION			
	DECLARATION			
As the below named invent				
 This declaration is directed to: 	☐ The attached application, or			
	☐ United States application or PCT international application number			
I believe that I amI hereby acknowled	ed application was made or authorized to be made by me. the original inventor or an original joint inventor of a claimed invention in the application. dge that any willful false statement made in this declaration is punishable under 18 U.S.C. prisonment of not more than five (5) years, or both.			
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NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary and/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 everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.				
INVENTOR/ASSIGNOR:				
Legal Name: <u>Viraj Cha</u>	<u>udhary</u>			
Address: c/o Capit	ral One Services, LLC, 1680 Capital One Drive, McLean, Virginia 22102			
Signature: /	Viray Chandhary / Date: 10/6/2021			

RECORDED: 10/07/2021

Attorney Docket No. 009033.00380 (Client Ref.: P08840-US)

COMBINED PATENT DECLARATION AND ASSIGNMENT

TITLE OF INVEN	TLE OF INVENTION: FAVORITE MERCHANTS SELECTION IN TRANSACTION BASED AUTHENTICATION					ON BASED AUTHENTICATION
			DECL	ARATION		
As the below name	ed inventor	, I hereby	declare that:			
 This decla is directed 		☐ The attached application, or				
		_	United States app number			application
I believe tI hereby a	hat I am th cknowledg	e original e that any		ginal joint inv ment made i	entor of a clair n this declaration	med invention in the application. on is punishable under 18 U.S.C.
			ASSI	GNMENT		
WHEREAS , I, the be application number			r/Assignor, have i	nvented the a	bove inventior	n, having the following
	U.S. Appl	ication N	o. <u>17/495,36</u>	5, fi	led <u>Octo</u>	ober 6, 2021 _.
If the above lines a number immediate						e filing date and application cument.
One Drive, McLean	n, Virginia 2 and to all ap	2102, is doplication	esirous of acquiri	ng the entire i	right, title and i	place of business at 1680 Capital interest in and to the aforesaid nited States of America, and in
salary and/or paym hereby acknowledge assigns and legal re America and all con Letters Patent in for which such applica and in and to all appreexaminations, con	nent for the ged, I said a persentation tries for exercising countions are expelications on tinuation and goodwil	e making of Assignor, I was, the fives, the five in the restriction in its and Letters, continu	of inventions, or e by these presents ull and exclusive ri to, and throughou s own name and to der international rs Patent granted lation-in-parts and	mployee bend do sell, assign ight, title and at the world a coclaim any proconventions, therefor, and I extensions the	efits, the receip and transfer u interest for the nd in space, (in iority rights for treaties, or oth all non-provisi hereof, and in a	uable consideration, including of and sufficiency of which is unto said Assignee, its successors, a territory of the United States of including the right to apply for r such foreign applications to erwise), in and to said inventions onals, divisionals, reissues, and to all copyrights, trademarks ons, necessary or useful to make,
issue all Letters Pa	tent on said tire right, ti	d inventio	ns or resulting the	erefrom to sai	d Assignee, or	duty it is to issue patents, to its successors and assigns, as right to agree to, execute, and
successors, assigns that I will execute a applications, testife	s, or nominal all non-pro y in any leg able for said	ees, any a visional, d al procee d Assignee	nd all facts knowr livisional, reissue, dings, sign all lawf e, its successors, a	n to me regard reexaminatio ful papers, ma	ling said invent n, continuatior ike all rightful c	municate to said Assignee, or its tions whenever requested, and and continuation-in-part paths, and generally do tain and enforce proper patent
INVENTOR/ASS	IGNOR:					
	David Sept	imus				
Address: c/o Capital One Services, LLC, 1680 Capital One Drive, McLean, Virginia 22102						
Signature: /	,	ĺ	d Septimus		/ Date:	10/6/2021