#### 505156327 10/24/2018

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date	
JEREMY PHILLIPS	11/13/2017	
ZHE LIU	11/13/2017	
KURRY TRAN	11/20/2017	

### **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:	15820161

### CORRESPONDENCE DATA

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HARRITY AND HARRITY, LLP **Correspondent Name:** Address Line 1: 11350 RANDOM HILLS ROAD

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ATTORNEY DOCKET NUMBER:	0104-0010	
NAME OF SUBMITTER:	E OF SUBMITTER: MATTHEW R. ALLEN	
SIGNATURE:	/ Matthew R. Allen, Reg. No. 65,289 /	
DATE SIGNED:	10/24/2018	

**Total Attachments: 2** 

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> **PATENT** REEL: 047292 FRAME: 0021

505156327

# ASSIGNMENT (Joint) Worldwide Rights

THIS ASSIGNMENT, by <u>Jeremy PHILLIPS</u>, <u>Zhe LIU</u>, and <u>Kurry TRAN</u>, residing at <u>544 Carlton Ave #2</u>, <u>Brooklyn</u>, <u>NY</u>, <u>11238</u>, <u>US</u>, <u>7808 Birnam Wood Dr.</u>, <u>McLean</u>, <u>VA</u>, <u>22102</u>, <u>US</u>, and <u>630 President Street</u>, <u>Brooklyn</u>, <u>NY</u>, <u>11215</u>, <u>US</u> (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in <u>TRANSACTION</u> <u>CONFIRMATION AND AUTHENTICATION BASED ON DEVICE SENSOR DATA</u> set forth in an application for Letters Patent of the United States.

(1)	which is a provisional application  (a) filed herewith; or  (b) bearing Application No.	, and filed on	; or
(2)	which is a non-provisional application  (a) bearing Application No.  (b) filed herewith; and	, and filed on	; or

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS, Capital One Services, LLC, a corporation duly organized under and pursuant to the laws of Virginia and having its principal place of business at 1680 Capital One Drive, McLean, VA 22102 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application or from which said application claims priority, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

Joint Assignment Attorney's Docket No.: 0104-0010

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

DocuSigned by:
Jeremy PHILLIPS
Date:11/13/2017
DocuSigned by:
Zhe Liu
Zhe LIU 619A70F2E5C249B
11/13/2017 Date:
Docusigned by:
KurryTReast FB0340F
11 /20 /2017

Date: