PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL MOSSOBA	07/24/2018
ABDELKADAR M'HAMED BENKREIRA	07/24/2018
JOSHUA EDWARDS	07/24/2018

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:	16045442

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0104-0138
NAME OF SUBMITTER:	KENNETH S. KWAN
SIGNATURE:	/Kenneth S. Kwan, Reg. No. 69,071/
DATE SIGNED:	07/26/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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PATENT REEL: 046468 FRAME: 0354

ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

I am an inventor (referred to below as Assignor) of an invention entitled:

AUTHENTICATION USING EMOJI-BASED PASSWORDS

filed herewith. Capital One Services, LLC, a corporation of Delaware whose post office address is 1680 Capital One Drive, McLean, VA 22102 (hereinafter referred to as Assignee), desires to obtain an assignment of this invention;

THEREFORE, for good and valuable consideration, I have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over to Assignee, its successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues and reexaminations thereof, and all rights to claim priority in any foreign country on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for Letters Patent which may become filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, reexaminations and reissues thereof; and I authorize and request the Director of the United States Patent and Trademark Office (USPTO) and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request that the	attorneys having Power	of Attorney i	in this application	, insert here in p	arentheses
(Application No	filed	_) the filing	date and applicat	ion number of s	aid application
when known.					

DECLARATION:

As a named inventor below, I declare that: (1) This declaration is directed to the above-identified application; (2) the above-identified application was made or authorized to be made by me; (3) my residence and mailing address are as stated below next to my name; and (4) I believe I am an original inventor or an original joint inventor of a claimed invention in the application. I acknowledge that any willful false statements made in this declaration are punishable by fine or imprisonment of not more than five (5) years, or both, under section 1001 of Title 18 of the United States Code.

As a below named inventor, I have reviewed and understand the contents of the application, including the claims, and am aware of the duty to disclose to the USPTO all information known to me to be material to patentability as defined in 37C.F.R. § 1.56.

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PATENT REEL: 046468 FRAME: 0355

Assignor	(Inventor) 1:
Name: Address:	Michael MOSSOBA 1919 Clarendon Blvd, Apt 422 Arlington, VA 22201 US
Signature:	Suhall Discrete
Date:	7/24/2018
Assignor	(Inventor) 2:
Name: Address:	Abdelkadar M'Hamed BENKREIRA 4413 Harrison St NW. Washington D.C. 20015 US
Signature:	ABe
Date:	7/24/2018
Assignor	(Inventor) 3:
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Signature:	JL ELL
	7/24/2018

RECORDED: 07/26/2018

Date: