PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XINYI FU	01/19/2020
ZHE LI	01/19/2020

RECEIVING PARTY DATA

Name:	ALIBABA GROUP HOLDING LIMITED	
Street Address:	FOURTH FLOOR, ONE CAPITAL PLACE	
Internal Address:	P.O. BOX 847	
City:	GEORGE TOWN, GRAND CAYMAN	
State/Country:	CAYMAN ISLANDS	
Postal Code:	KY1-1103	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16812163

CORRESPONDENCE DATA

Fax Number: (650)815-2601

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: 650-815-2692

Email: wchen@sheppardmullin.com, svpatents@sheppardmullin.com,

monda@sheppardmullin.com, anwong@sheppardmullin.com

Correspondent Name: SHEPPARD MULLIN RICHTER & HAMPTON LLP

Address Line 1: 379 LYTTON AVE.
Address Line 2: ATTN: WILL CHEN

Address Line 4: PALO ALTO, CALIFORNIA 94301

ATTORNEY DOCKET NUMBER:	50GL-307990
NAME OF SUBMITTER:	WEIGUO CHEN
SIGNATURE:	/Weiguo Chen/
DATE SIGNED:	03/06/2020

Total Attachments: 2

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PATENT 505955511 REEL: 052043 FRAME: 0879

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, Xinyi FU and Zhe LI, each individually assign to ALIBABA GROUP HOLDING LIMITED, a corporation formed under the laws of Cayman Islands and having a principal place of business at Fourth Floor, One Capital Place, P.O. Box 847, George Town, Grand Cayman, Cayman Islands, KY1-1103, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in all of the subject matter and invention(s) (the "Subject Matter") of the following applications that name us as inventors: Chinese Patent Application No. 201711353642.X, filed December 15, 2017 (the "Chinese Application"), PCT Application No. PCT/CN2018/104480, filed September 7, 2018 (the "PCT Application"), that claims priority to the Chinese Application, and a patent application titled "BIOMETRIC AUTHENTICATION, IDENTIFICATION AND DETECTION METHOD AND DEVICE FOR MOBILE TERMINAL AND EQUIPMENT," that claims priority to the PCT Application and the Chinese Application and was or will be filed in the United States Patent and Trademark Office on March 6, 2020, as application number 16/812,163 (the "U.S. Application"). We authorize the insertion of the filing date and application number above.

We each individually have assigned or hereby assign, in addition to the Subject Matter, (a) the Chinese Application, the PCT Application, the U.S. Application, and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for any of the Subject Matter in every country or region and under every treaty or convention (collectively the "Applications and Granted Rights"); (b) the right to claim priority based on, and the benefit of the filing date of, any of the Applications and Granted Rights under the Paris Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties, conventions, or national laws; and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

Attorney Docket No.: 50GL-307990 / PCT13019US

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made, and will not make, any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts, in any form, relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

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Xinyi FU	
Witnessed by:	
Signature: <u>3714</u>	Date: 2020. 1. 19
Print Name: Long Guo	
支 哲	Date: 7020.1.19
Zhe LI	
Witnessed by:	
Signature: \$P fc	Date: 2020. 1.19
Print Name: Long Gue	

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