

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5404860

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LE HE	02/25/2019
YUKUN TUO	02/26/2019
LIANG LI	02/25/2019
MIAN HUANG	02/26/2019
JIDONG CHEN	02/25/2019
WENBO YANG	02/26/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALIBABA GROUP HOLDING LIMITED
<b>Street Address:</b>	FOURTH FLOOR, ONE CAPITAL PLACE
<b>Internal Address:</b>	P.O. BOX 847
<b>City:</b>	GEORGE TOWN, GRAND CAYMAN
<b>State/Country:</b>	CAYMAN ISLANDS
<b>Postal Code:</b>	KY1-1103
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16282102
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(650)815-2601
<i>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.</i>	
<b>Phone:</b>	650-815-2692
<b>Email:</b>	wchen@sheppardmullin.com, svpatents@sheppardmullin.com, monda@sheppardmullin.com, anwong@sheppardmullin.com
<b>Correspondent Name:</b>	SHEPPARD MULLIN RICHTER & HAMPTON LLP
<b>Address Line 1:</b>	379 LYTTON AVE.
<b>Address Line 2:</b>	ATTN: WILL CHEN
<b>Address Line 4:</b>	PALO ALTO, CALIFORNIA 94301
<b>ATTORNEY DOCKET NUMBER:</b>	50GL-286988
<b>NAME OF SUBMITTER:</b>	WEIGUO CHEN
<b>SIGNATURE:</b>	/Weiguo Chen/

<b>DATE SIGNED:</b>	03/05/2019
---------------------	------------

**Total Attachments: 4**  
source=Assignment\_16282102#page1.tif  
source=Assignment\_16282102#page2.tif  
source=Assignment\_16282102#page3.tif  
source=Assignment\_16282102#page4.tif

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, Le HE, Yukun TUO, Liang LI, Mian HUANG, Jidong CHEN and Wenbo YANG, 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 the invention(s) (the "Subject Matter") of Chinese Patent Application, Serial No. 201610717080.1, filed August 24, 2016, that names us as inventors (the "Chinese Patent Application") and of a patent application titled "USER IDENTITY VERIFICATION METHOD, APPARATUS AND SYSTEM," that claims priority to the Chinese Patent Application and was or will be filed in the United States Patent and Trademark Office on February 21, 2019, as application number 16/282,102 (the "Application") which also names us as inventors. We authorize the insertion of the filing date and application number above.

This Assignment assigns, in addition to the Subject Matter of the Application, (a) the 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 (collectively the "Applications and Granted Rights") in every country or region; (b) the right to claim priority based on, and the benefit of the filing date of, any of the Chinese Patent Application and the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions; 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.

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.

何乐  
Le HE

Date: 2019.2.25

Witnessed by:

Signature: 马仲阳

Date: 2019.2.25

Print Name: 马仲阳

Yukun Tuo  
Yukun TUO

Date: 2019.2.26

Witnessed by: 黄景

Signature: 黄景

Date: 2019.2.26

Print Name: 黄景

Liang Li  
Liang LI

Date: 2019.2.25

Witnessed by:

Signature: 何东

Date: 2019.2.25

Print Name: 何东

Mian Huang  
Mian HUANG

Date: 2019.2.26

Witnessed by:

Signature: Yukun Tuo

Date: 2019.2.26

Print Name: Yukun Tuo

Jidong Chen  
Jidong CHEN

Date: 2019.2.25

Witnessed by:

Signature: 何东

Date: 2019.2.25

Print Name: 何东

  
Wenbo YANG

Date: 2019.2.26

Witnessed by:

Signature: Yukun Tuo

Date: 2019.2.26

Print Name: Yukun Tuo