### 507154787 03/01/2022

## PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
GUI HUANG	11/19/2021
CANFANG SHANG	11/26/2021
DENGCHENG HE	11/25/2021

#### **RECEIVING PARTY DATA**

Name:	ALIBABA GROUP HOLDING LIMITED	
Street Address:	FOURTH FLOOR, ONE CAPITAL PLACE	
Internal Address:	PO BOX 847	
City:	GRAND CAYMAN	
State/Country:	CAYMAN ISLANDS	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17538748

#### **CORRESPONDENCE DATA**

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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.

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ATTORNEY DOCKET NUMBER: AB1-1003US

NAME OF SUBMITTER: AMANDA SASSER

SIGNATURE: /Amanda Sasser/

DATE SIGNED: 03/01/2022

**Total Attachments: 4** 

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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Sorial Number		
	HUANG et al.	
	Alibaba Group Holding Limited	
Attorney's Docket No	AB1-1003US	
Client Docket No.	PCT21802US	
	ETHOD, APPARATUS, ELECTRONIC DEVICE, AND	
COM CIENTICIA IGENIEDION	PATENT ASSIGNMENT	
PARTIES TO THE ASSIGNMENT		
Accionavích		
Assignor(s):		
Gui HUANG		
c/o Alibaba Group Legal Departme		
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Yu Hang District, Hangzhou, China	. 311121	
Canfang SHANG		
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5/F, Building 3, No.969 West Wen Y		
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Dengcheng HE		
c/o Alibaba Group Legal Departme	nt	
5/F, Building 3, No.969 West Wen Y	'i Road,	
Yu Hang District, Hangzhou, China	. 311121	
Assignee:		
Alibaba Group Holding Limited		
Fourth Floor, One Capital Place		
P.O. Box 847		
Grand Cayman		
Cayman Islands		
AGREEMENT		
WHEREAS ASSICNIODIS	(listed above) are inventor(s) of an invention entitled	
		_
	APPARATUS, ELECTRONIC DEVICE, AND COMPUTEI	₹
STORAGE MEDIUM" for v	vhich:	
a provisional application	n for United States Letters Patent was filed on a	ınd
was given U.S. Serial No.	and/or	

Page 1 of 3

a non-provisional application for United States Letters Patent was:

ightharpoonup filed on 11/30/2021 and was given U.S. Serial No. 17/538,748 ; or filed concurrently herewith. Assignors hereby authorize and request ASSIGNEE's legal representatives, of Lee & Hayes, P.C., 601 W Riverside Ave, Suite 1400, Spokane, Washington 99201, who are associated with customer number 29150, to insert in the caption above the serial number and filing date of the patent application when known.

WHEREAS, Alibaba Group Holding Limited (hereinafter referred to as ASSIGNEE), a corporation of Cayman Islands having a place of business at Fourth Floor, One Capital Place, P.O. Box 847, Grand Cayman, Cayman Islands, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S)

had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Huang Gui	
Gui HUANG	
11/19/2021	
Date (mm/dd/yyyy)	
Canfang SHANG	
Date (mm/dd/yyyy)	
II D	 
He Dengcheng	
Dengcheng HE	
11/25/2021	
Date (mm/dd/yyyy)	

Page 3 of 3

Attorney Docket No. AB1-1003US Client Docket No. PCT21802US

had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Page 3 of 3