

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6199717

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SUHANG XU	06/19/2020
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:	16570392	
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Phone:	5093249256	
Email:	amandas@leehayes.com	
Correspondent Name:	LEE & HAYES, PC	
Address Line 1:	601 W RIVERSIDE	
Address Line 2:	SUITE 1400	
Address Line 4:	SPOKANE, UNITED STATES 99201	
ATTORNEY DOCKET NUMBER:	AB1-0782US	
NAME OF SUBMITTER:	AMANDA SASSER	
SIGNATURE:	/Amanda Sasser/	
DATE SIGNED:	07/14/2020	
Total Attachments: 3		
source=2BR4449#page1.tif		
source=2BR4449#page2.tif		
source=2BR4449#page3.tif		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....
Filing Date
Inventorship..... XU
Assignee..... Alibaba Group Holding Limited
Attorney's Docket No.AB1-0782US
Client Docket No.PCT10191US
Title: Key Encryption Methods, Apparatuses, and Systems

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Suhang XU
c/o Alibaba Group Legal Department
5/F, Building 3, No.969 West Wen Yi 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, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
“ Key Encryption Methods, Apparatuses, and Systems” for which:

☐ a provisional application for United States Letters Patent was filed on _____ and
was given U.S. Serial No. _____ and/or

☒ a foreign priority Chinese patent application was filed on 15 March 2017 and was
given CN Patent Application Serial No. 201710153405.2and/or

☒ a PCT international application for was filed on 02 March 2018 and was given PCT
Serial No. PCT/CN2018/077817and/or

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

☒ filed on 13 September 2019 and was given U.S. Serial No. 16/570,392; 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.

 _____ Suhang XU 6/19/2020 _____ Date (mm/dd/yyyy)	 _____ Witness Signature 黄睿 _____ Name (printed) 6/19/2020 _____ Date (mm/dd/yyyy)
--	---