

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT6211123

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LILI ZHANG	04/02/2020
DI ZHANG	04/03/2020
YONGQIANG PAN	03/04/2020
WEINAN HE	03/30/2020
DAPING ZHANG	04/07/2020
JIANJUN ZHAO	03/30/2020
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:	16577926
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	AB1-0784US
NAME OF SUBMITTER:	AMANDA SASSER
SIGNATURE:	/Amanda Sasser/
DATE SIGNED:	07/21/2020

Total Attachments: 8

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....
Filing Date.....
Inventorship Zhang et al.
Assignee Alibaba Group Holding Limited
Attorney's Docket No. AB1-0784US
Client Docket No. PCT11694US
Title:..... Communication Methods and Apparatuses

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

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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
“ Communication Methods and Apparatuses” 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 21 march 2017 and was
given CN Patent Application Serial No. 201710169947.9and/or

a PCT international application for was filed on 12 March 2018 and was given PCT
Serial No. PCT/CN2018/078669and/or

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

filed on 20 September 2019 and was given U.S. Serial No. 16/577,926; 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.

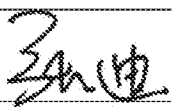
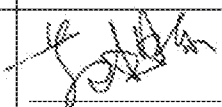
WHEREAS, Alibaba Group Holding Limited (hereinafter referred to as ASSIGNEE), a
corporation of Cayman Islands having a place of business at Fourth Floor, One Capital Place,
P.O. Box 847, Grand Cayman, Cayman Islands, is desirous of acquiring the entire right, title and
interest in and to the invention 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.

<u>Lili Zhang</u> Lili Zhang	<u>Yang Boyu</u> Witness Signature
<u>2020.4.2</u> Date (mm/dd/yyyy)	<u>Yang Boyu</u> Name (printed)
	<u>04/02/2020</u> Date (mm/dd/yyyy)
<u>Di Zhang</u>	Witness Signature
Date (mm/dd/yyyy)	Name (printed)
	Date (mm/dd/yyyy)

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.

<hr/> <p>Lili Zhang</p> <hr/> <p>Date (mm/dd/yyyy)</p>	<hr/> <p>Witness Signature</p> <hr/> <p>Name (printed)</p> <hr/> <p>Date (mm/dd/yyyy)</p>
 <hr/> <p>Di Zhang</p> <hr/> <p>04/03/2020</p> <hr/> <p>Date (mm/dd/yyyy)</p>	 <hr/> <p>Witness Signature</p> <hr/> <p>范旭东</p> <hr/> <p>Name (printed)</p> <hr/> <p>04/03/2020</p> <hr/> <p>Date (mm/dd/yyyy)</p>

<p>_____ Yongqiang Pan</p> <p>_____ Date (mm/dd/yyyy)</p>	<p>_____ Witness Signature</p> <p>_____ Name (printed)</p> <p>_____ Date (mm/dd/yyyy)</p>
<p> _____ Weinan He</p> <p>3/30/2020 _____ Date (mm/dd/yyyy)</p>	<p> _____ Witness Signature</p> <p>Ping CAO _____ Name (printed)</p> <p>3/30/2020 _____ Date (mm/dd/yyyy)</p>
<p>_____ Daping Zhang</p> <p>_____ Date (mm/dd/yyyy)</p>	<p>_____ Witness Signature</p> <p>_____ Name (printed)</p> <p>_____ Date (mm/dd/yyyy)</p>
<p>_____ Jianjun Zhao</p> <p>_____ Date (mm/dd/yyyy)</p>	<p>_____ Witness Signature</p> <p>_____ Name (printed)</p> <p>_____ Date (mm/dd/yyyy)</p>

Yongqiang Pan Date (mm/dd/yyyy)	Witness Signature Name (printed) Date (mm/dd/yyyy)
Weinan He Date (mm/dd/yyyy)	Witness Signature Name (printed) Date (mm/dd/yyyy)
 Daping Zhang Date (mm/dd/yyyy) 04/07/2020	 Witness Signature Weining He Name (printed) 04/07/2020 Date (mm/dd/yyyy)
Jianjun Zhao Date (mm/dd/yyyy)	Witness Signature Name (printed) Date (mm/dd/yyyy)

<p>_____ Yongqiang Pan</p> <p>_____ Date (mm/dd/yyyy)</p>	<p>_____ Witness Signature</p> <p>_____ Name (printed)</p> <p>_____ Date (mm/dd/yyyy)</p>
<p>_____ Weinan He</p> <p>_____ Date (mm/dd/yyyy)</p>	<p>_____ Witness Signature</p> <p>_____ Name (printed)</p> <p>_____ Date (mm/dd/yyyy)</p>
<p>_____ Daping Zhang</p> <p>_____ Date (mm/dd/yyyy)</p>	<p>_____ Witness Signature</p> <p>_____ Name (printed)</p> <p>_____ Date (mm/dd/yyyy)</p>
<p>_____ 赵建军 Jianjun Zhao</p> <p>03/30/2020 _____ Date (mm/dd/yyyy)</p>	<p>_____ Witness Signature</p> <p>_____ Name (printed)</p> <p>03/30/2020 _____ Date (mm/dd/yyyy)</p>