

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| YIFEI PAN | 07/31/2020 |
| 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: | 16859795 |
| CORRESPONDENCE DATA | |
| Fax Number: | (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> | |
| Phone: | 650-815-2692 |
| Email: | wchen@sheppardmullin.com, svpatents@sheppardmullin.com, monda@sheppardmullin.com, csato@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-309004 |
| NAME OF SUBMITTER: | WEIGUO CHEN |
| SIGNATURE: | /Weiguo Chen/ |
| DATE SIGNED: | 08/30/2020 |
| Total Attachments: 2 | |
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| source=Assignment_16859795#page2.tif | |

ASSIGNMENT

For valuable consideration, the receipt of which I acknowledge, and intending to be bound legally, I, Yifei PAN, have assigned or hereby 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 my 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 me as inventor: Chinese Patent Application No. 201910797836.1, filed August 27, 2019 (the "Chinese Application"), PCT Application No. PCT/CN2020/072178, filed January 15, 2020 (the "PCT Application"), that claims priority to the Chinese Application, and a patent application 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 April 27, 2020, as application number 16/859,795 (the "U.S. Application"). I authorize the insertion of the filing date and application number above.

I have assigned or hereby assign to the Assignee, 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.

I 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 my name or in the Assignee's name.

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

I 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.

Yifei PAN
Yifei PAN

Date: 2020.7.31

Witnessed by:

Signature: 张小平

Date: 2020-7-31

Print Name: Xiaoping Zhang