505889404 01/29/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ling Xie	07/27/2018
Xiaolong Li	07/27/2018

RECEIVING PARTY DATA

Name:	ALIBABA GROUP HOLDING LIMITED	
Street Address:	FOURTH FLOOR, ONE CAPITAL PLACE, 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:	16723008

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	44892-0149002/A11975USC1	
NAME OF SUBMITTER:	SARAH NAGLE	
SIGNATURE:	/Sarah Nagle/	
DATE SIGNED:	01/29/2020	

Total Attachments: 3

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PATENT 505889404 REEL: 051661 FRAME: 0667

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, LING XIE, and XIAOLONG LI, each individually assigns 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. 201710629480.1, filed July 28, 2017 that names us as inventors (the "Chinese Patent Application") and of a patent application titled "DATA SECRUITY ENHANCEMENT BY MODEL TRAINING," that claims priority to the Chinese Patent Application and was or will be filed in the United States Patent and Trademark Office on July 27, 2018, as application 16/047,399 (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 and under every treaty or convention, (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 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.

Attorney Docket No.: 44892-0149001 / A11975US

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.

Ling Xie

Witnessed by:

Signature: 48.5

Print Name: Zhiqiang Zhang

Date: 07/27/2018...

Date: <u>57 / 57 / 59 8</u>

Attorney Docket No.: 44892-0149001 / A11975US

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ite: 7/27/2018

Witnessed by:

Signature:

Date: July 127/2018

Print Name: KAIS HZNG

Assignment Page 3 of 3