505086135 09/10/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5132893

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUCAI XIA	05/02/2018
ERPENG CHANG	05/02/2018
JIE WANG	05/02/2018

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:	15969364

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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.

Email: apsi@fr.com

Correspondent Name: FISH & RICHARDSON P.C.

Address Line 1: P.O. BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440

ATTORNEY DOCKET NUMBER:	44892-0098001
NAME OF SUBMITTER:	CHRISTIE LOVEN
SIGNATURE:	/Christie Loven/
DATE SIGNED:	09/10/2018

Total Attachments: 4

source=PCT6594US_Assignment#page1.tif source=PCT6594US_Assignment#page2.tif source=PCT6594US_Assignment#page3.tif source=PCT6594US_Assignment#page4.tif

PATENT 505086135 REEL: 046830 FRAME: 0237

Attorney Docket No.: 44892-0098001 / PCT6594US

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, YUCAI XIA, ERPENG CHANG, and JIE WANG, each individually 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 Gayman 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 subject matter (the "Subject Matter") of Chinese Patent Application, Serial No. 201510734236.2, filed November 3, 2015 that names us as inventors (the "Chinese Patent Application") and of a patent application titled "MONITORING NODE USAGE IN A
DISTRIBUTED SYSTEM," that claims priority to the Chinese Patent Application and was filed in the United States Patent and Trademark Office on May 2, 2018, as application 15/969,364 (the "Application") which also names us as inventors. We authorize the insertion of the filing date and application number above.

This Assignment assigns (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, (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.

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.

Assignment Page 1 of 4

Attorney Docket No.: 44892-0098001 / PCT6594US

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 Assignce the rights, titles, and interests assigned by this Assignment.

Ywai Xia

Date: 2018.5.2

Witnessed by:

Date: 2018.5.2

Assignment Page 2 of 4

Corner Decision, 44802 (09800), Pt 100941/8

Espelie CHANG

1018 5 2

Attorney Docket No.: 44892-0098001 / PCT6594US

Jie Wang

Date: 2018.05.02

Witnessed by:

Signature: 2 to the total

Date: 2018.05.02

Print Name: Shu Zhong Liu

Assignment Page 4 of 4

PATENT REEL: 046830 FRAME: 0241

RECORDED: 09/10/2018