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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| GANG CHENG | 09/28/2016 |
| SHUNMIN ZHU | 09/23/2016 |
| JIESHENG WU | 09/23/2016 |
| RONG WEN | 09/23/2016 |

RECEIVING PARTY DATA

| Name: | ALIBABA GROUP HOLDING LIMITED | |
|-------------------|---------------------------------|--|
| Street Address: | FOURTH FLOOR, ONE CAPITAL PLACE | |
| Internal Address: | P.O. BOX 847 | |
| City: | GRAND CAYMAN | |
| State/Country: | CAYMAN ISLANDS | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15005613 |

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 509-324-9256

Email: michelinac@leehayes.com
Correspondent Name: LEE & HAYES, PLLC

Address Line 1: 601 W. RIVERSIDE AVENUE

Address Line 2: SUITE 1400

Address Line 4: SPOKANE, WASHINGTON 99201

| ATTORNEY DOCKET NUMBER: | AB1-0415US |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | MICHELINA SERRES |
| SIGNATURE: | /Michelina Serres/ |
| DATE SIGNED: | 11/28/2016 |

Total Attachments: 4 source=1L70632#page1.tif source=1L70632#page2.tif

PATENT 504112487 REEL: 040696 FRAME: 0466

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> PATENT REEL: 040696 FRAME: 0467

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| Serial Number | |
|--------------------------------------|---|
| Filing Date | |
| | Cheng et al. |
| | Alibaba Group Holding Limited |
| Attorney's Docket No | AB1-0415US |
| Client Docket No | A6565US |
| Title: Network System and Method for | Connecting a Private Network with a Virtual Private |
| Network | |

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Gang Cheng c/o Alibaba Group Legal Department 5/F, Building 3, No.969 West Wen Yi Road, Yu Hang District, Hangzhou, China. 311121

Shunmin Zhu

c/o Alibaba Group Legal Department 10/F, Building A, the West Lake International Plaza of S&T, No.391 Wen'er Road, Hangzhou, China 310013

Jiesheng Wu

c/o Alibaba Group Legal Department 5/F, Building 3, No.969 West Wen Yi Road, Yu Hang District, Hangzhou, China. 311121

Rong Wen

c/o Alibaba Group Legal Department 10/F, Building A, the West Lake International Plaza of S&T, No.391 Wen'er Road, Hangzhou, China 310013

Assignee:

Alibaba Group Holding Limited Fourth Floor, One Capital Place P.O. Box 847 Grand Cayman Cayman Islands

Attorney Docket No. AB1-0415US Client Docket No. A6565US

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"Network System and Method for Connecting a Private Network with a Virtual Private

Network" for which:

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

 \boxtimes filed on 01/25/2016 and was given U.S. Serial No. 15/005,613; or filed

concurrently herewith. Assignors hereby authorize and request ASSIGNEE's legal

representatives, of Lee & Hayes, PLLC, 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

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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.

| Gang Cheng 9 / 28 / 20 / 6 Date (mm/dd/yyyy) | Witness Signature Zhu Pang Name (printed) 9/28/2016 Date (num/dd/yyyy) |
|--|---|
| Shunmin Zhu 9/13/20/6 Date (mm/dd/yyyy) | Witness Signature LI Ku Name (printed) 9/13/2016 Date (mm/dd/yyyy) |
| Jiesheng Wu 9/2>/2016 Date (mm/dd/yyyy) | Witness Signature LI KU Name (printed) 9/13/2016 Date (mm/dd/yyyy) |

| 文灰 | 赵福发 |
|----------------------------------|-------------------------------|
| Rong Wen | Witness Signature 2 hao Fu Fa |
| 9/2 9/ 30/2 Date (mm/dd/yyyy) | Name (printed) 9 / 23 / 20/6 |
| | Date (mm/dd/yyyy) |