

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HUI LIU	08/25/2015
LIN ZHOU	08/25/2015
HAOHUA ZHENG	08/25/2015
HUIFENG JIN	08/25/2015
TIANCHENG XIANG	08/26/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALIBABA GROUP HOLIDNG LIMITED
<b>Street Address:</b>	FOURTH FLOOR, ONE CAPITAL PLACE
<b>Internal Address:</b>	P.O. BOX 847
<b>City:</b>	GRAND CAYMAN
<b>State/Country:</b>	CAYMAN ISLANDS
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14839709
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	50GL-250683
<b>NAME OF SUBMITTER:</b>	WEIGUO CHEN
<b>SIGNATURE:</b>	/Weiguo Chen/
<b>DATE SIGNED:</b>	12/23/2016
<b>Total Attachments: 4</b>	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number .....  
Filing Date .....  
Inventorship ..... Liu et al.  
Assignee ..... Alibaba Group Holding Limited  
Attorney's Docket No. .... AB1-0346US  
Client Docket No. .... A2978US  
Title: ..... Method and Apparatus of Obtaining Location Information

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

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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 "Method and Apparatus of Obtaining Location Information" for which:

a provisional application for United States Letters Patent was filed on ..... and was given U.S. Serial No. .... and/or

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

filed on August 28, 2015 and was given U.S. Serial No. 14/839,709

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 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.

<p><u>刘峰</u> Hui Liu <u>08/25/2015</u> Date (mm/dd/yyyy)</p>	<p><u>梁爱</u> Witness Signature <u>Liang Ai</u> Name (printed) <u>08/25/2015</u> Date (mm/dd/yyyy)</p>
<p><u>郑浩华</u> Haohua Zheng <u>08/25/2015</u> Date (mm/dd/yyyy)</p>	<p><u>梁爱</u> Witness Signature <u>Liang Ai</u> Name (printed) <u>08/25/2015</u> Date (mm/dd/yyyy)</p>
<p><u>靳慧峰</u> Hui Feng Jin <u>08/25/2015</u> Date (mm/dd/yyyy)</p>	<p><u>梁爱</u> Witness Signature <u>Liang Ai</u> Name (printed) <u>08/25/2015</u> Date (mm/dd/yyyy)</p>

<p><u>周琳</u> Lin Zhou</p> <p><u>08/25/2015</u> Date (mm/dd/yyyy)</p>	<p><u>梁晋</u> Witness Signature</p> <p><u>梁晋</u> Name (printed)</p> <p><u>08/25/2015</u> Date (mm/dd/yyyy)</p>
<p><u>项天成</u> Tiancheng Xiang</p> <p><u>08/26/2015</u> Date (mm/dd/yyyy)</p>	<p><u>付大鹏</u> Witness Signature</p> <p><u>Dapeng Fu</u> Name (printed)</p> <p><u>08/26/2015</u> Date (mm/dd/yyyy)</p>