

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3956256

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUI SHEN	11/10/2015
ZHIPENG ZHANG	11/10/2015
HANBO MA	11/10/2015
YUNJIAO YAO	11/10/2015
XIAO QIAN	11/10/2015
RECEIVING PARTY DATA	
Name:	ALIBABA GROUP HOLDING LIMITED
Street Address:	FOURTH FLOOR, ONE CAPITAL PLACE
Internal Address:	PO BOX 847
City:	GRAND CAYMAN
State/Country:	CAYMAN ISLANDS
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14863877
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NAME OF SUBMITTER:	AMANDA SASSER
SIGNATURE:	/Amanda Sasser/
DATE SIGNED:	07/11/2016
Total Attachments: 4	

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PATENT

REEL: 039302 FRAME: 0227

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number 14/863,877
Filing Date 24 September 2015
Inventorship Shen et al.
Assignee Alibaba Group Holding Limited
Attorney's Docket No. AB1-0332US
Client Docket No. A3291US
Title: POSITIONING MOBILE TERMINAL BASED ON ELECTROMAGNETIC SIGNALS

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

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Assignee:
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
" POSITIONING MOBILE TERMINAL BASED ON ELECTROMAGNETIC SIGNALS" for
which:

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

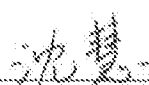
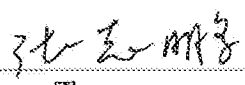
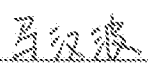
☒ a non-provisional application for United States Letters Patent was:

☒ filed on 24 September 2015 and was given U.S. Serial No. 14/863,877, 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.

 _____ Hui Shen 11/10/2015 _____ Date (mm/dd/yyyy)	 _____ Witness Signature Hao Chen _____ Name (printed) 11/10/2015 _____ Date (mm/dd/yyyy)
 _____ Zhipeng Zhang 11/10/2015 _____ Date (mm/dd/yyyy)	 _____ Witness Signature Hao Chen _____ Name (printed) 11/10/2015 _____ Date (mm/dd/yyyy)
 _____ Hanbo Ma 11/10/2015 _____ Date (mm/dd/yyyy)	 _____ Witness Signature Hao Chen _____ Name (printed) 11/10/2015 _____ Date (mm/dd/yyyy)

<u>姚云蛟</u> Yunjiao Yao <u>11/10/2015</u> Date (mm/dd/yyyy)	<u>陈昊</u> Witness Signature <u>Hao Chen</u> Name (printed) <u>11/10/2015</u> Date (mm/dd/yyyy)
<u>钱霄</u> Xiao Qian <u>11/10/2015</u> Date (mm/dd/yyyy)	<u>陈昊</u> Witness Signature <u>Hao Chen</u> Name (printed) <u>11/10/2015</u> Date (mm/dd/yyyy)