

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6063944

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	HUI ZHANG	09/03/2019
RECEIVING PARTY DATA		
Name:	ALIBABA GROUP HOLDING LIMITED	
Street Address:	FOURTH FLOOR, ONE CAPITAL PLACE	
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City:	GEORGE TOWN, GRAND CAYMAN	
State/Country:	CAYMAN ISLANDS	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16774795
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ATTORNEY DOCKET NUMBER:	15009.0017-01000	
NAME OF SUBMITTER:	ANITA L. NYLANDER	
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DATE SIGNED:	04/16/2020	
Total Attachments: 2		
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ASSIGNMENT

WHEREAS I/We are the below-named inventor(s) (hereinafter referred to as Assignor(s)) of an invention entitled:

METHOD AND APPARATUS FOR DETERMINING INDEX GRIDS OF GEO-FENCE

as disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
PCT/CN2018/089148	PCT	May 31, 2018
201710407332.5	CN	June 2, 2017

WHEREAS, Alibaba Group Holding Limited, a corporation of Cayman Islands, whose post office address is Fourth Floor, One Capital Place, P.O. Box 847, George Town, Grand Cayman, Cayman Islands (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced application(s) when known.

SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 15009.0017-00000
Applicant Reference No. PCT11845US

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

ASSIGNOR (Inventor) 1

张辉

Signature

Hui ZHANG

Print Name

2019.09.03

Execution Date