

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4719283

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	SHU LI	11/03/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	ALIBABA GROUP HOLDING LIMITED	
<b>Street Address:</b>	FOURTH FLOOR, ONE CAPITAL PLACE,	
<b>Internal Address:</b>	P.O. BOX 847, GEORGE TOWN	
<b>City:</b>	GRAND CAYMAN	
<b>State/Country:</b>	CAYMAN ISLANDS	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15815510
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(530)204-4064	
<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>Correspondent Name:</b>	SHUN YAO	
<b>Address Line 1:</b>	PARK, VAUGHAN, FLEMING & DOWLER LLP	
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<b>ATTORNEY DOCKET NUMBER:</b>	ALI-A12940US	
<b>NAME OF SUBMITTER:</b>	SHUN YAO	
<b>SIGNATURE:</b>	/Shun Yao, Reg.# 59242/	
<b>DATE SIGNED:</b>	12/05/2017	
<b>Total Attachments: 2</b>		
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## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to ALIBABA GROUP HOLDING LIMITED, a Cayman Islands corporation, having a place of business at Fourth Floor, One Capital Place, P.O. Box 847, George Town, Grand Cayman, Cayman Islands ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the application for United States Letters Patent entitled: METHOD AND SYSTEM FOR ENHANCING FLASH TRANSLATION LAYER MAPPING FLEXIBILITY FOR PERFORMANCE AND LIFESPAN IMPROVEMENTS ("APPLICATION"), which was filed on 11/16/2017, now bearing U.S. Serial Number 15/815,510 and for which a Declaration was executed by INVENTOR; and the entire worldwide right, title, and interest in and to (a) the APPLICATION, including any right of priority; (b) all applications that have been or will be filed on the SUBJECT MATTER and any and all certificates of invention or other governmental grants granted in the United States or any other country in the world on an invention disclosed and described in the above-referenced application including without limitation, any provisional, non-provisional, divisional, continuation, continuation-in-part, design, industrial design, substitution, or application for other rights based in whole or in part on the above-referenced patent application; and (c) patents which may be granted on the applications set forth in (a) and (b) above.

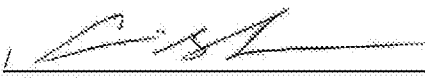
INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles, and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR hereby authorizes and requests Park, Vaughan, Fleming & Dowler LLP to insert herein above the application number and filing date and/or execution date of said application when known.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Executed on 11/3/2017,   
Shu Li