PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHU LI	08/13/2015
YONG LI	08/13/2015
GONGBIAO NIU	08/14/2015

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14858257

CORRESPONDENCE DATA

Fax Number: (408)938-9069

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: 408-938-9060

Email: cholland@mhbpatents.com

Correspondent Name: MURABITO, HAO & BARNES LLP Address Line 1: TWO NORTH MARKET STREET

Address Line 2: THIRD FLOOR

Address Line 4: SAN JOSE, CALIFORNIA 95113

ATTORNEY DOCKET NUMBER:	BABA-A4973US	
NAME OF SUBMITTER:	WILLIAM A. ZARBIS	
SIGNATURE:	/William A. Zarbis/	
DATE SIGNED:	09/18/2015	

Total Attachments: 3

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PATENT 503486043 REEL: 036600 FRAME: 0474

Attorney Docket No.: BABA-A4973US

Assignment to Alibaba Group Holding Limited

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we Shu LI, Yong LI, Gongbiao NIU do hereby sell, assign, and transfer unto Alibaba Group Holding Limited a Corporation having its principle place of business at Fourth Floor, One Capital Place, P.O. Box 847, Georgetown Grand Cayman, Cayman Islands and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled: DATA DEDUPLICATION USING A SOLID STATE DRIVE CONTROLLER X filed herewith and the inventions set forth and described therein, and any and all Letters Patent of United States and of countries foreign thereto which may be granted thereon or therefor; or and the inventions set forth filed on and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; And for the above consideration, I/we agree promptly upon request of Alibaba Group Holding Limited its successors or assigns, to execute and deliver without further compensation any power of attorney. assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Alibaba Group Holding Limited, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Alibaba Group Holding Limited. I/we further covenant with Alibaba Group Holding Limited its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; In witness whereof, I/we hereunto set my/our hand(s) and seal: 2- Date: 08/13/2015 Inventor's Signature: Inventor's Signature: Yong LI Inventor's Signature; Date: Gongbiao NIU

Attorney Docket No.: BABA-A4973US

Assignment to Alibaba Group Holding Limited

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we Shu LI, Yong LI, Gongbiao NIU

do hereby sell, assign, and transfer unto Alibaba Group Holding Limited a Corporation having its principle place of business at Fourth Floor, One Capital Place, P.O. Box 847, Georgetown Grand Cayman, Cayman Islands and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

DATA DEDUPLICATION USING A SOLID STATE DRIVE CONTROLLER

DATA DEDUPL	ICATION USING A SOLID ST	ATE DRIVE CONTROLLER
X filed herewit	a and the inventions set forth and	described therein, and any and all Letters Patent of
United States	and of countries foreign thereto v	which may be granted thereon or therefor; or
Serial No.:	filed on	and the inventions set forth
	d therein, and any and all Letters n may be granted thereon or theref	Patent of the United States and of countries foreign or;
its successors or assignment, appli be necessary or d the inventions de country foreign involving said in	assigns, to execute and deliver vecation, whether original, continual estrable fully to secure to Alibabascribed in said application and all hereto, and to cooperate and as wentions and in the adjudication may be incurred by me/us in le	otly upon request of Alibaba Group Holding Limited without further compensation any power of attorney, tion, divisional or reissue, or other papers which may a Group Holding Limited, its successors and assigns, patent rights therein, in the United States and in any sist in the prosecution of interference proceedings or reexamination of said Letters Patent provided the nding such cooperation and assistance are paid by
representatives the property herein co	at no assignment, grant, mortgage	olding Limited its successors, assigns, and legal e, license, or other agreement affecting the rights and by the undersigned, and that full right to convey the signed;
In witness whereof	I/we hereunto set my/our hand(s) at	nd seal:
Inventor's Signature:	Chall	Date:
Inventor's Signature:	Youg Li	Date: 08/13/2013
Inventor's Signature:		Date: Gongbiao NIU

Attorney Docket No.: BABA-A4973US

Assignment to Alibaba Group Holding Limited

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we
Shu LI, Yong LI, Gongbiao NIU
do hereby sell, assign, and transfer unto Alibaba Group Holding Limited a Corporation having its
principle place of business at Fourth Floor, One Capital Place, P.O. Box 847, Georgetown Grand
Cayman, Cayman Islands and its successors and assigns, the entire right, title, and interest for the United
States and all foreign countries, in and to any and all improvements, including the right of priority in, to
and under, the application for the United States patent entitled:
DATA DEDUPLICATION USING A SOLID STATE DRIVE CONTROLLER

X filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the
United States and of countries foreign thereto which may be granted thereon or therefor; or

Serial No.:

filed on

and the inventions set forth
and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor:

And for the above consideration, I/we agree promptly upon request of Alibaba Group Holding Limited its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Alibaba Group Holding Limited, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Alibaba Group Holding Limited.

I/we further covenant with Alibaba Group Holding Limited its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:

Date:

Yong LI

Inventor's Signature:

Obligation NIU

Date: 8, 14, 20 15

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RECORDED: 09/18/2015

PATENT REEL: 036600 FRAME: 0477