

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Wei Zhang</td> <td>08/13/2013</td> </tr> <tr> <td>Hong Tang</td> <td>08/13/2013</td> </tr> <tr> <td>Hao Jiang</td> <td>08/13/2013</td> </tr> <tr> <td>Yue Zeng</td> <td>08/13/2013</td> </tr> <tr> <td>Xiaogang Li</td> <td>08/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Wei Zhang	08/13/2013	Hong Tang	08/13/2013	Hao Jiang	08/13/2013	Yue Zeng	08/13/2013	Xiaogang Li	08/12/2013
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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													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13967939</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13967939								
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CORRESPONDENCE DATA													
Fax Number:													
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	5093249256												
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ATTORNEY DOCKET NUMBER:	AB1-0216US												
NAME OF SUBMITTER:	Amanda Sasser												

OP \$40.00 13967939

Signature:	/Amanda Sasser/
Date:	08/22/2013
Total Attachments: 4 source=10H5204#page1.tif source=10H5204#page2.tif source=10H5204#page3.tif source=10H5204#page4.tif	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....
Filing Date.....
Inventorship..... Zhang et al.
Assignee..... Alibaba Group Holding Limited
Attorney's Docket No. A81-0216US
Client Docket No. A1626US
Title..... Virtual Machine Snapshot Backup Based on Multilayer De-duplication

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s)

Wei Zhang
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No.391 Wen'er Road,
Hangzhou, China 310013

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
" Virtual Machine Snapshot Backup Based on Multilayer De-duplication " 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:

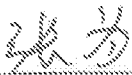


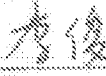
filed on 15 August 2013 and was given U.S. Serial No. 13/967,939;

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> Wei Zhang <u>08/13/2013</u> Date (mm/dd/yyyy)</p>	<p> Witness Signature <u>Jun Li</u> Name (printed) <u>08/13/2013</u> Date (mm/dd/yyyy)</p>
<p> Hong Tang <u>08/13/2013</u> Date (mm/dd/yyyy)</p>	<p> Witness Signature <u>Jun Li</u> Name (printed) <u>08/13/2013</u> Date (mm/dd/yyyy)</p>

<p><u>蒋灏</u> Hao Jiang <u>08/13/2013</u> Date (mm/dd/yyyy)</p>	<p><u>李俊</u> Witness Signature <u>Jun Li</u> Name (printed) <u>08/13/2013</u> Date (mm/dd/yyyy)</p>
<p><u>曾勇</u> Yue Zeng <u>08/13/2013</u> Date (mm/dd/yyyy)</p>	<p><u>李俊</u> Witness Signature <u>Jun Li</u> Name (printed) <u>08/13/2013</u> Date (mm/dd/yyyy)</p>
<p><u>李红刚</u> Xiaogang Li <u>08/12/2013</u> Date (mm/dd/yyyy)</p>	<p><u>金晶晶</u> Witness Signature <u>JiJing Cong</u> Name (printed) <u>08/12/2013</u> Date (mm/dd/yyyy)</p>