

PATENT ASSIGNMENT COVER SHEET

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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>KIRAN TATI</td> <td>01/12/2014</td> </tr> <tr> <td>RAJESH VENKATASUBRAMANIAN</td> <td>12/11/2013</td> </tr> <tr> <td>CARL A. WALDSPURGER</td> <td>10/08/2013</td> </tr> <tr> <td>ALEXANDER THOMAS GARTHWAITE</td> <td>10/28/2013</td> </tr> <tr> <td>TONGPING LIU</td> <td>10/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	KIRAN TATI	01/12/2014	RAJESH VENKATASUBRAMANIAN	12/11/2013	CARL A. WALDSPURGER	10/08/2013	ALEXANDER THOMAS GARTHWAITE	10/28/2013	TONGPING LIU	10/09/2013
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<table border="1"> <tr> <td>Name:</td> <td>VMWARE, INC.</td> </tr> <tr> <td>Street Address:</td> <td>3401 HILLVIEW AVENUE</td> </tr> <tr> <td>City:</td> <td>PALO ALTO</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94304</td> </tr> </table>		Name:	VMWARE, INC.	Street Address:	3401 HILLVIEW AVENUE	City:	PALO ALTO	State/Country:	CALIFORNIA	Postal Code:	94304		
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Application Number:	13760868												
CORRESPONDENCE DATA													
Fax Number:	(650)427-4818												
Phone:	650-427-1049												
Email:	ipadmin@vmware.com, rsmith@pattersonsheridan.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	VMWARE, INC.												
Address Line 1:	3401 HILLVIEW AVENUE												
Address Line 2:	ATTENTION: DARRYL SMITH												
Address Line 4:	PALO ALTO, CALIFORNIA 94304												
ATTORNEY DOCKET NUMBER:	A501												
NAME OF SUBMITTER:	ALBERT J. BOARDMAN												

Signature:	/Albert J. Boardman/
Date:	01/13/2014
<p>Total Attachments: 10</p> <p>source=A501_Assignment#page1.tif</p> <p>source=A501_Assignment#page2.tif</p> <p>source=A501_Assignment#page3.tif</p> <p>source=A501_Assignment#page4.tif</p> <p>source=A501_Assignment#page5.tif</p> <p>source=A501_Assignment#page6.tif</p> <p>source=A501_Assignment#page7.tif</p> <p>source=A501_Assignment#page8.tif</p> <p>source=A501_Assignment#page9.tif</p> <p>source=A501_Assignment#page10.tif</p>	

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, an ASSIGNOR named below,

Kiran TATI	of	Fremont, CA
Rajesh VENKATASUBRAMANIAN	of	San Jose, CA
Carl A. WALDSPURGER	of	Palo Alto, CA
Alexander Thomas GARTHWAITE	of	Hamilton, MA
Tongping LIU	of	Amherst, MA

hereby sell, assign, transfer and set over to

ASSIGNEE: VMware, Inc., a Delaware corporation, having a principal place of business at 3401 Hillview Avenue, Palo Alto, California 94304, U.S.A. (VMware), its successors, assigns and legal representatives,

my entire right, title and interest throughout the world, including all rights to claim priority, in and to the invention(s) disclosed in:

- ☐ U.S. Patent Application executed on or about the date of this Assignment,
☒ U.S. Patent Application No.: 13/760,868, filed on February 6, 2013;
☐ U.S. Provisional Application No.: _____, filed on _____;
☐ International Application No.: PCT/_____, filed on _____;

and

ENTITLED: MAPPING GUEST PAGES TO DISK BLOCKS TO IMPROVE VIRTUAL MACHINE MANAGEMENT PROCESSES

and identified by Attorney Docket Number: A501

and naming inventor(s) as follows:

INVENTOR(S): Kiran TATI
 Rajesh VENKATASUBRAMANIAN
 Carl A. WALDSPURGER
 Alexander Thomas GARTHWAITE and
 Tongping LIU

including without limitation, my entire right, title and interest in and to any and all United States and foreign applications (including any and all provisional, international, regional and foreign national applications) for said invention(s), including divisionals, continuations, continuations-in-part, renewals, substitutes and extensions thereof, and in and to any and all patents of every country or region that may be granted or have been granted for said invention(s), including any reissues and reexaminations thereof—the foreign applications including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for the invention(s) in any country or countries foreign to the United States, and all forms of industrial property protection, including, without limitation, patents,

ASSIGNMENT

utility models, inventor's certificates and designs which may be granted for the invention(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

I authorize ASSIGNEE to apply for patents of foreign countries for said invention(s); to claim all rights of priority without further authorization from me, which priority rights include rights derived from any United States application (provisional or otherwise) under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and to own in its own name all applications, all patents and inventor's certificates in all countries based on the invention(s).

I agree to execute any and all documents requested by ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their reasonable expense, in connection with filing and prosecution of any and all United States and foreign applications (including international, regional, and foreign national applications), enforcement of all patents, and maintenance of all rights in the invention(s), patents, inventor's certificates and applications for patents or inventor's certificates based on any of the invention(s); and generally to do everything possible to aid ASSIGNEE, its successors, assigns, legal representatives, and nominees, at their request and reasonable expense, in obtaining, enforcing, and maintaining patents and inventor's certificates for said invention(s) in all countries. In particular, I agree to provide to ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their request and at their reasonable expense, all information known to or ascertainable by me and all documents and other materials and objects pertaining to the invention(s) that are in the possession of or accessible to me; and further, at any trial, hearing, deposition or other legal proceeding where I am called as a witness by ASSIGNEE, its successors, assigns, legal representatives, or nominee, I agree to testify to all facts pertaining to the invention(s) for which I am competent to testify.

I hereby covenant that I have full right to convey the entire interest that is being assigned by this Assignment, and that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

I authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue any U.S. Letters Patent or any other patent or property right that may be granted for said invention(s) to ASSIGNEE, its successors or assigns.

Executed on 01/12/2014, by T. Kiran
Date Kiran TATI

Executed on _____, by _____
Date Rajesh VENKATASUBRAMANIAN

ASSIGNMENT

Executed on _____, by _____
Date Carl A. WALDSPURGER

Executed on _____, by _____
Date Alexander Thomas GARTHWAITE

Executed on _____, by _____
Date Tongping LIU

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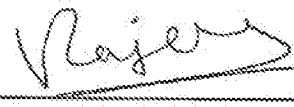
I authorize ASSIGNEE to apply for patents of foreign countries for said invention(s); to claim all rights of priority without further authorization from me, which priority rights include rights derived from any United States application (provisional or otherwise) under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and to own in its own name all applications, all patents and inventor's certificates in all countries based on the invention(s).

I agree to execute any and all documents requested by ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their reasonable expense, in connection with filing and prosecution of any and all United States and foreign applications (including international, regional, and foreign national applications), enforcement of all patents, and maintenance of all rights in the invention(s), patents, inventor's certificates and applications for patents or inventor's certificates based on any of the invention(s); and generally to do everything possible to aid ASSIGNEE, its successors, assigns, legal representatives, and nominees, at their request and reasonable expense, in obtaining, enforcing, and maintaining patents and inventor's certificates for said invention(s) in all countries. In particular, I agree to provide to ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their request and at their reasonable expense, all information known to or ascertainable by me and all documents and other materials and objects pertaining to the invention(s) that are in the possession of or accessible to me; and further, at any trial, hearing, deposition or other legal proceeding where I am called as a witness by ASSIGNEE, its successors, assigns, legal representatives, or nominee, I agree to testify to all facts pertaining to the invention(s) for which I am competent to testify.

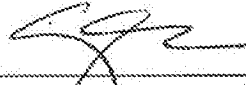
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Executed on _____, by _____
Date Kiran TATI

Executed on Dec. 11, 2013, by 
Date Rajesh VENKATASUBRAMANIAN

ASSIGNMENT

Executed on 08-Oct-13, by 
Date Carl A. WALDSPURGER

Executed on _____, by _____
Date Alexander Thomas GARTHWAITE

Executed on _____, by _____
Date Tongping LIU

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REEL: 031954 FRAME: 0835

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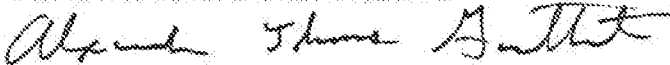
Executed on _____, by

Date Kiran TATI

Executed on _____, by

Date Rajesh VENKATASUBRAMANIAN

Date Carl A. WALDSPURGER Executed on _____, by

Date Alexander Thomas GARTHWAITE Executed on ^{10/28/2013}_____, by


Date Tongping LIU Executed on _____, by

ASSIGNMENT

Executed on _____, by _____
Date Carl A. WALDSPURGER

Executed on _____, by _____
Date Alexander Thomas GARTHWAITE

Executed on 10/9/2013, by Tongping LIU
Date