

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| WENGUANG WANG | 01/30/2019 |
| CHRISTOPH KLEE | 01/30/2019 |
| ADRIAN DRZEWIECKI | 01/30/2019 |
| CHRISTOS KARAMANOLIS | 01/30/2019 |
| RICHARD P. SPILLANE | 01/30/2019 |
| MAXIME AUSTRUY | 01/31/2019 |
| RECEIVING PARTY DATA | |
| Name: | VMWARE, INC. |
| Street Address: | 3401 HILLVIEW AVENUE |
| City: | PALO ALTO |
| State/Country: | CALIFORNIA |
| Postal Code: | 94304 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16256726 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
| Phone: | 7136234844 |
| Email: | ross@pattersonsheridan.com, psdocketing@pattersonsheridan.com, ipadmin@vmware.com, VMware@blackhillsip.com |
| Correspondent Name: | PATTERSON & SHERIDAN, LLP - VMWARE |
| Address Line 1: | 24 GREENWAY PLAZA |
| Address Line 2: | SUITE 1600 |
| Address Line 4: | HOUSTON, TEXAS 77046 |
| ATTORNEY DOCKET NUMBER: | E257 |
| NAME OF SUBMITTER: | ANKUR GARG |
| SIGNATURE: | /Ankur Garg/ |
| DATE SIGNED: | 02/01/2019 |

Total Attachments: 5

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ASSIGNMENT

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

| | | |
|----------------------|----|---------------------------|
| Wenguang WANG | of | Santa Clara, California |
| Christoph KLEE | of | Snoqualmie, Washington |
| Adrian DRZEWIECKI | of | Cupertino, California |
| Christos KARAMANOLIS | of | Los Gatos, California |
| Richard P. SPILLANE | of | Mountain View, California |
| Maxime AUSTRUY | of | Lausanne, Switzerland |

hereby sell, assign, transfer and set over to

ASSIGNEE: VMware, Inc., a Delaware a Corporation, having a principal place of business at 3401 Hillview Avenue, Palo Alto, California 94304 (), 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,
x ____ U.S. Patent Application No.: 16/256,726 , filed on January 24, 2019 ;
____ U.S. Provisional Application No.: _____ , filed on _____ ;
____ International Application No.: _____ , filed on _____ ;

and

ENTITLED: SYSTEM AND METHODS OF IMPROVING THE PERFORMANCE OF
CHUNK REPLACEMENT IN A USER LEVEL ZERO-COPY DATA

and identified by Attorney Docket Number: E257

and naming inventor(s) as follows:

INVENTOR(S): Wenguang WANG
 Christoph KLEE
 Adrian DRZEWIECKI
 Christos KARAMANOLIS
 Richard P. SPILLANE
 Maxime AUSTRUY

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

ASSIGNMENT

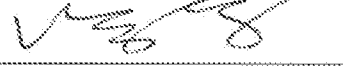
including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for the invention(s) in any country or countries foreign to the United States, and all forms of industrial property protection, including, without limitation, patents, utility models, 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).

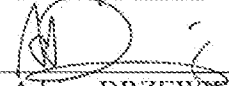
I agree to execute any and all documents requested by ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their reasonable expense, in connection with filing and prosecution of any and all United States and foreign applications (including international, regional, and foreign national 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 1/30/19, by 
Date Wenguang WANG

Executed on _____, by _____
Date Christoph KLEE

Executed on 1/31/19, by 
Date Adrian DRZEWIECKI

ASSIGNMENT

Executed on 1/30/2019, by 
Date Christos KARAMANOLIS

Executed on 1/30/2019, by 
Date Richard P. SPILLANE

Executed on _____, by _____
Date Maxime AUSTRUY

ASSIGNMENT

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, 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 _____, by _____
Date Wenguang WANG

Executed on 01-30-2019, by _____
Date Christoph KLEE

Executed on _____, by _____
Date Adrian DRZEWIECKI

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Executed on _____, by _____
Date Richard P. SPILLANE

Executed on 1/31/2019, by _____
Date Maxime AUSTRUY