

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT4642923

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
IRINA CALCIU	10/13/2017
AASHEESH KOLLI	10/13/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VMWARE, INC.
<b>Street Address:</b>	3401 HILLVIEW AVENUE
<b>City:</b>	PALO ALTO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94304
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15785214
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)623-4846
<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>	
<b>Phone:</b>	7136234844
<b>Email:</b>	cstepanek@pattersonsheridan.com, ipdas@vmware.com
<b>Correspondent Name:</b>	VMWARE, INC.
<b>Address Line 1:</b>	3401 HILLVIEW AVENUE
<b>Address Line 4:</b>	PALO ALTO, CALIFORNIA 94304
<b>ATTORNEY DOCKET NUMBER:</b>	D869
<b>NAME OF SUBMITTER:</b>	ANKUR GARG
<b>SIGNATURE:</b>	/Ankur Garg/
<b>DATE SIGNED:</b>	10/16/2017
<b>Total Attachments: 2</b>	
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source=D869_Assignment_executed_10-16-17#page2.tif	

**ASSIGNMENT**

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

Irina CALCIU	of	Palo Alto, California
Aasheesh KOLLI	of	Palo Alto, California

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,  
\_\_\_\_\_ U.S. Patent Application No.: \_\_\_\_\_, filed on \_\_\_\_\_ ;
- \_\_\_\_\_ U.S. Provisional Application No.: \_\_\_\_\_, filed on \_\_\_\_\_ ;
- \_\_\_\_\_ International Application No.: \_\_\_\_\_, filed on \_\_\_\_\_ ;

and

ENTITLED: CACHE LINE PERSISTENCE INDICATOR FOR NON-VOLATILE MEMORY USING COHERENCE STATES

and identified by Attorney Docket Number: D869

and naming inventor(s) as follows:

INVENTOR(S):           Irina CALCIU  
                                  Aasheesh KOLLI

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, 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.

ASSIGNMENT

I authorize ASSIGNEE to apply for patents of foreign countries for said inventions; 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 of 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 inventions;

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 inventions; patents, inventor's certificates and applications for patents or inventor's certificates based on any of the inventions; 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 inventions 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 inventions 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 nominees. I agree to testify as all facts pertaining to the inventions 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 inventions to ASSIGNEE, its successors or assigns.

Executed on 10/17/2017 by [Signature]  
Date Iring C. ALCO

Executed on 10/17/2017 by [Signature]  
Date Ashesh N. COJI