07/31/2019 505598095

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5644896

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
UDAY PUNDALIK KURKURE	07/20/2019
HARI SIVARAMAN	07/21/2019
LAN VU	07/23/2019

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:	16520080

CORRESPONDENCE DATA

Fax Number: (650)427-4818

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: 4702474666

Email: ipadmin@vmware.com,VMware@blackhillsip.com

Correspondent Name: VMWARE, INC.

Address Line 1: 3401 HILLVIEW AVENUE

Address Line 4: PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER:	F409 (500107-1370)
NAME OF SUBMITTER:	KENNETH A. KNOX
SIGNATURE:	/Kenneth A. Knox/
DATE SIGNED:	07/31/2019

Total Attachments: 4

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PATENT REEL: 049912 FRAME: 0353 505598095

ASSIGNMENT

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

Uday Pundalik Kurkure	Of	Los Altos Hills, CA	
Hari Sivaraman	Of	Livermore, CA	
Lan Vu	Of	Palo Alto, CA	

hereby sell, assign, transfer and set over to

ASSIGNEE: VMware, Inc., a Delaware corporation, having a principal business at 3401 Hillview Avenue, Palo Alto, CA 94304 (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:

x 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.: PCT/, filed on	
and	

ENTITLED: AVOIDING POWER-ON FAILURES IN VIRTUALIZED GPUS

and identified by Attorney Docket Number: F409 (500107-1370)

and naming inventor(s) as follows:

INVENTOR(S): Uday Pundalik Kurkure, Hari Sivaraman, Lan Vu

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, region al 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 eissues 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

Page 1 of 2

REEL: 049912 FRAME: 0354

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 _		
Executed on	Date 7/21/2019	bv	Uday Pundalik Kurkure	
Executed on _	Date	, °J _	Hari Sivaraman	
Executed on		, by		
	Date		Lan Vu	

ASSIGNMENT

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 decuments and other materials and objects pertaining to the invention(s) that are in the possess on 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	. bv	
Date	Uday Pundalik Kurkure	
Executed on	, by	
Date	Hari Sivaraman	
Executed on 7/23/2019	, by	_
Date	Lan Vu	1

ASSIGNMENT

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hereby sell, assign, transfer and set over to

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

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

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ENTITLED: A VOIDING POWER-ON FAILURES IN VIRTUALIZED GPUS

and

and identified by Attorney Docket Number: F409 (500107-1370)

and naming inventor(s) as follows:

Uday Pundalik Kurkure, Hari Sivaraman, Lan Vu INVENTOR(S):

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

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 atent Laws of the United States, the International Convention for the Protection of Industrial

ASSIGNMENT

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).

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 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 nominee, I agree to testify to all facts pertaining to the invention(s) for which I am competent 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 agree to execute any and all documents requested by ASSIGNEE, its successors, assigns, to testify

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. hereby covenant that I have full right to convey the entire interest that is being assigned by

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 and any official of any country or countries foreign to the United States, whose duty it is to authorize and request the Commissioner of Patents and Trademarks of the United States, granted for said invention(s) to ASSIGNEE, its successors or assigns.

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