#### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Edward Joseph GOGGIN	08/16/2010
Hariharan SUBRAMANIAN	09/20/2010
Sanjana ASWANI	09/22/2010
Adam M. BELAY	09/12/2010
Anurekh SAXENA	08/19/2010

#### 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:	12856399

#### **CORRESPONDENCE DATA**

501303069

Fax Number: (650)427-4818

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 650-427-1049

Email: ipadmin@vmware.com

Correspondent Name: VMWARE, INC.

Address Line 1: DARRYL SMITH

Address Line 2: 3401 Hillview Ave.

Address Line 4: PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER: A481

NAME OF SUBMITTER: 09/28/2010

**PATENT** 

REEL: 025050 FRAME: 0882

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Total Attachments: 16 source=A481-GOGGIN-Assignment#page1.tif source=A481-GOGGIN-Assignment#page2.tif source=A481-GOGGIN-Assignment#page3.tif source=A481-Hari-Assign#page1.tif source=A481-Hari-Assign#page2.tif source=A481-Hari-Assign#page3.tif source=A481-Sanjana-Assign-Updated#page1.tif source=A481-Sanjana-Assign-Updated#page2.tif source=A481-Sanjana-Assign-Updated#page3.tif source=A481\_BELAY-ASG#page1.tif source=A481\_BELAY-ASG#page2.tif source=A481\_BELAY-ASG#page3.tif source=A481\_BELAY-ASG#page4.tif source=A481-ANUREKH-Assignment#page1.tif source=A481-ANUREKH-Assignment#page2.tif source=A481-ANUREKH-Assignment#page3.tif

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

Edward Joseph GOGGIN	of	Concord, MA
Hariharan SUBRAMANIAN	of	Wakefield, MA
Sanjana ASWANI	of	Boston, MA
Adam M. BELAY	of	Cambridge, MA
Anurekh SAXENA	of`	Cambridge, 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:

X_U.S. Pate	ent Application executed on or a	about the date of this	Assignment,	
U.S. Pater	nt Application executed on	5	,, or	
U.S. Pater	nt Application No.:	filed on		;
U.S. Prov	risional Application No.:	, filed on:		
Internatio	mal Application No.: PCT/	, filed or	B	
and				

ENTITLED: Methods and Systems for Detecting Anomalies During IO Accesses

and identified by Attorney Docket Number A481

and naming inventor(s) as follows:

INVENTOR(S): Edward Joseph GOGGIN; Hariharan SUBRAMANIAN; Sanjana ASWANI; Adam M. BELAY; Anurekh SAXENA

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.

Date

Executed on \_\_\_\_\_

I authorize and request that the U.S. Patent Application number and filing date corresponding to the U.S. Patent Application identified above be inserted here, if not already shown above, when such Patent Application number and filing date become known:		
U.S. Patent Application, filed		
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		

Hariharan SUBRAMANIAN

Executed on	, by	Sanjana ASWANI
Date		Service Company and the service of t
Executed on	, by	Adam M. BELAY
Executed on	, by	Anurekh SAXENA

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Sanjana ASWANI	of	Boston, MA
Adam M. BELAY	of	Cambridge, MA
Anurekh SAXENA	of	Cambridge, MA

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and naming inventor(s) as follows:

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,

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_X	_U.S. Patent Application executed on or a	about the date of	this Assig	nment,	
	U.S. Patent Application executed on				, or
	U.S. Patent Application No.:	filed on			
	U.S. Provisional Application No.:	, filed on	;		
	International Application No.: PCT/	, file	ed on	***************************************	
and					

ENTITLED: Methods and Systems for Detecting Anomalies During IO Accesses and identified by Attorney Docket Number A481

INVENTOR(S): Edward Joseph GOGGIN; Hariharan SUBRAMANIAN; Sanjana ASWANI; Adam M. BELAY; Anurekh SAXENA

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I authorize and request that the U.S. Patent Ap to the U.S. Patent Application identified abov when such Patent Application number and filin	oplication number and filing date corresponding to be inserted here, if not already shown above, and date become known:
U.S. Patent Application, file	ed
claim all rights of priority without further include rights derived from any United States a Patent Laws of the United States, the International agreement Property, or any other international agreement	of foreign countries for said invention(s); to authorization from me, which priority rights application (provisional or otherwise) under the onal Convention for the Protection of Industrial tor the domestic laws of the country in which applicable; and to own in its own name all tes in all countries based on the invention(s).
legal representatives, or nominees, at their reaprosecution of any and all United States and regional, and foreign national applications), eall rights in the invention(s), patents, inventor inventor's certificates based on any of the possible to aid ASSIGNEE, its successors, as their request and reasonable expense, in obtainventor's certificates for said invention(s) in a ASSIGNEE, its successors, assigns, legal repretheir reasonable expense, all information know and other materials and objects pertaining to taccessible to me; and further, at any trial, heard I am called as a witness by ASSIGNEE, its	uested by ASSIGNEE, its successors, assigns, sonable expense, in connection with filing and I foreign applications (including international, inforcement of all patents, and maintenance of or's certificates and applications for patents or invention(s); and generally to do everything ssigns, legal representatives, and nominees, at ining, enforcing, and maintaining patents and all countries. In particular, I agree to provide to esentatives, or nominees, at their request and at yn to or ascertainable by me and all documents the invention(s) that are in the possession of or ing, deposition or other legal proceeding where successors, assigns, legal representatives, or go to the invention(s) for which I am competent
I hereby covenant that I have full right to conthis Assignment, and that no assignment, sale, or will be made or entered into that would conf	vey the entire interest that is being assigned by license, agreement, or encumbrance has been lict with this Assignment.
and any official of any country or countries for issue patents or other evidence or forms of in	Patents and Trademarks of the United States, oreign to the United States, whose duty it is to dustrial property protection on applications as any other patent or property right that may be successors or assigns.
Executed on	_, by
Executed on	Edward Joseph GOGGIN
Executed on	_, by
Date	Hariharan SUBRAMANIAN

Executed on _		by	
	Date	•	Sanjana ASWANI
Executed on _		by	
	Date		Adam M. BELAY
Executed on _		by	
	Date	•	Anurekh SAXENA

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<u>X</u> U.S. P	atent Application executed on o	or about the date of this Assignm	ent,
	itent Application executed on _		
U.S. Pa	itent Application No.:	, filed on	
	ovisional Application No.:		
Interna	tional Application No.: <u>PCT/</u>	, filed on	
and			
ENTITLED:	Methods and Systems for Deta	ecting Anomalies During IO Acc	cesses .
and identified	by Attorney Docket Number	<u>A481</u>	
and naming h	nventor(s) as follows:		

INVENTOR(S): Edward Joseph GOGGIN; Hariharan SUBRAMANIAN; Sanjana ASWANI; Adam M. BELAY: Anurekh SAXENA

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Executed on

Date

Date	Edward Joseph GOGGIN
Executed on	by
or will be made or entered into that I authorize and request the Comn and any official of any country or issue patents or other evidence or aforesaid, to issue any U.S. Letter	nment, sale, license, agreement, or encumbrance has been twould conflict with this Assignment.  issioner of Patents and Trademarks of the United States, countries foreign to the United States, whose duty it is to forms of industrial property protection on applications as a Patent or any other patent or property right that may be SIGNEE, its successors or assigns.
I hereby covenant that I have full this Assignment, and that no assignment.	right to convey the entire interest that is being assigned by
legal representatives, or nominees prosecution of any and all Unite regional, and foreign national appail rights in the invention(s), pate inventor's certificates based on possible to aid ASSIGNEE, its stheir request and reasonable experimentor's certificates for said inventor's certificates for said inventor's certificates for said inventor reasonable expense, all informand other materials and objects peacessible to me; and further, at an I am called as a witness by ASSIGNEE.	cuments requested by ASSIGNEE, its successors, assigns is, at their reasonable expense, in connection with filing and d States and foreign applications (including international elications), enforcement of all patents, and maintenance of ents, inventor's certificates and applications for patents or any of the invention(s); and generally to do everything uccessors, assigns, legal representatives, and nominees, at ense, in obtaining, enforcing, and maintaining patents and ention(s) in all countries. In particular, I agree to provide to s, legal representatives, or nominees, at their request and at mation known to or ascertainable by me and all documents entaining to the invention(s) that are in the possession of or my trial, hearing, deposition or other legal proceeding where SIGNEE, its successors, assigns, legal representatives, or lets pertaining to the invention(s) for which I am competent
claim all rights of priority with include rights derived from any U Patent Laws of the United States, Property, or any other internation any such application is filed, a	for patents of foreign countries for said invention(s); to tout further authorization from me, which priority rights nited States application (provisional or otherwise) under the the International Convention for the Protection of Industria tal agreement or the domestic laws of the country in which is may be applicable; and to own in its own name al tor's certificates in all countries based on the invention(s).
U.S. Patent Application _	, filed,
to the U.S. Patent Application ide	S. Patent Application number and filing date corresponding entified above be inserted, here, if not already shown above mber and filing date become known:

Hariharan SUBRAMANIAN

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Executed on	Date	1	Sanjana ASWANI	
asacomoti off	Date	, by	Adam M. BELAY	
Executed on	Date	, by	Amirable CAVENIA	

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

Edward Joseph GOGGIN	of	Concord, MA	ļ
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and		
ENTITLED: Methods and Systems for Detec	ting Anomalies During IO Access	ses

and identified by Attorney Docket Number A481

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U.S. P	rize and request that the U.S. Pat atent Application identified above Application number and filing date	e be inserted her				
	U.S. Patent Application	_, filed				
	Y Contract C	7 34.50 1.5	2 2 22	4 80 1	and the second second	

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	•	Edward Joseph GOGGIN		
Executed on _	· · · · · · · · · · · · · · · · · · ·	, by			

Page 2 of 4

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Executed on _		, by	
Executed on	Date 09/12/10	, by	Sanjana ASWANI Octorn Roley
Excented on	Date	, <i>0</i> y	Adam M. BELAY
Executed on _		, by	
	Date		Anurekh SAXENA

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

Edward Joseph GOGGIN	of	Concord, MA	
Hariharan SUBRAMANIAN	of	Wakefield, MA	
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I auth	orize	and re	quest that	the U.S	S. Pate	nt App	licatio	n nun	nber a	and fili	ng date	corresp	onding
to the	U.S.	Patent	. Applicat	ion ide	ntified	above	be ins	erted	here,	if not	already	shown	above,
when	such	Patent	Applicati	on num	iber an	id filing	date	becon	ie kno	own:			

U.S.	Patent Application	, filed	

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Executed on		
Date	Edward Joseph GOGGIN	
Executed on	, by	
Date	Haribaran SUBRAMANIAN	

**RECORDED: 09/28/2010** 

Executed on		, by	
	Date	Sanjana ASWANI	
Executed on _		, by	
	Date j	Adam M. BELAY	
Executed on _	2/19/2010	by multiple	
	Date	Anurekh SAXENA	