

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4956672

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
IMMUTABLE SYSTEMS, INC.		05/03/2018
RECEIVING PARTY DATA		
Name:	VMWARE, INC.	
Street Address:	3401 HILLVIEW AVENUE	
City:	PALO ALTO	
State/Country:	CALIFORNIA	
Postal Code:	94304	
PROPERTY NUMBERS Total: 16		
Property Type	Number	
Patent Number:	9292331	
Patent Number:	9335932	
Application Number:	13835167	
Patent Number:	9306978	
Application Number:	61799550	
Patent Number:	9733867	
Patent Number:	9535741	
Patent Number:	9578064	
Patent Number:	9892256	
Patent Number:	9953168	
Application Number:	15863574	
Application Number:	15934621	
Application Number:	15420523	
Application Number:	15661618	
Application Number:	15692890	
Application Number:	15796264	
CORRESPONDENCE DATA		
Fax Number:	(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>		

PATENT

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Email: psdocketing@pattersonsheridan.com,
jcardenas@pattersonsheridan.com, ipadmin@vmware.com
Correspondent Name: PATTERSON & SHERIDAN, LLP
Address Line 1: 24 GREENWAY PLAZA, SUITE 1600
Address Line 4: HOUSTON, TEXAS 77046

NAME OF SUBMITTER:	FREDERICK D. KIM
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SIGNATURE:	/Frederick D. Kim/
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DATE SIGNED:	05/10/2018
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Total Attachments: 8

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PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Agreement") is dated May 3, 2018 (the "Effective Date") and is between Immutable Systems, Inc., a Delaware corporation, ("Assignor") and VMware, Inc., a Delaware corporation ("Assignee"). Each of Assignor and Assignee are referred to herein as a "Party" or, collectively, as the "Parties."

Under the Asset Purchase Agreement, dated April 26, 2018 (the "Asset Purchase Agreement"), Assignor has agreed to assign to Assignee all of Assignor's right, title and interest in the Company Patents (as defined in the Asset Purchase Agreement) owned by Assignor, including without limitation, the patents and patent applications set forth below in Exhibit A; any and all issued patents, continuations, divisional, renewals, extensions, continuations-in-part, reexaminations, reissue applications, foreign counterparts or any other patent or application that claims priority to any of the foregoing or to the patent applications listed in Exhibit A; and any invention disclosed or claimed in any of the foregoing (the "Assignor Patents").

Assignee desires to acquire all of Assignor's right, title and interest in the Assignor Patents.

In exchange for the consideration paid under the Asset Purchase Agreement, the receipt of which is hereby acknowledged, Assignor does hereby sell and assign unto Assignee all of Assignor's right, title and interest in the Assignor Patents, including all rights to recover damages for any and all past, current or future infringement, and the right to file applications and make claims of priority to the Properties under the patent laws of the United States, the International Convention for the Protection of Industrial Property, and any other international agreement or convention or the domestic laws of any country in which such application is filed. Assignor hereby authorizes and requests the Commissioner of the United States Patent and Trademark Office, and the corresponding entity or agency in any applicable foreign country, to record Assignee as assignee and owner of the Assignor Patents.

In case of any conflict between the terms and conditions of this Agreement and the terms and conditions of the Asset Purchase Agreement, the terms and conditions of the Asset Purchase Agreement shall govern. This Agreement may be executed in two or more counterparts and by the different parties hereto on separate counterparts, each of which when so executed and delivered will be an original, but all of which together will constitute one and the same instrument. Any such counterpart, to the extent delivered by means of electronic delivery will be treated in all manner and respects as an original executed counterpart and will be considered to have the same binding legal effect as if it were the original signed version thereof delivered in person. This Agreement will be governed by and construed in accordance with the laws of the State of Delaware, regardless of the laws that might otherwise govern under applicable principles of conflicts of law.

[Signature page follows]

The Parties have caused this Agreement to be executed as of the Effective Date by duly authorized persons.

IMMUTABLE SYSTEMS, INC.

By: _____

Name: _____

Title: _____

VMWARE, INC.

By: _____

Name: _____

Title: _____

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(Signature page to Patent Assignment Agreement)

Exhibit A

Patents

Title	Inventors	Record Owner	Jurisdiction	Application	Filing Date	Patent Number	Issue Date
Method and Computer-Readable Storage Medium for Expansion of Services for a Virtual Data Center Guest Computer System	Jason A. Lango, James J. Voil, Andrew G. Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	13/842,670	3/15/13	9,292,331 B2	3/22/2016
Storage Unit Selection For Virtualized Storage Units	Jason A. Lango, John K. Edwards	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	13/837,375	3/15/13	9,335,932 B2	5/10/2016
Allocating And Pricing Virtual Resources	James A. Schainblum, Shalabh Mohan, Jason A. Lango, Thomas B. Gilles, Robert Van Zant	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	13/835,167	3/15/13		
Automatic Tuning Of Virtual Data Center Resource Utilization Policies	Jason A. Lango, John K. Edwards, Nithin Mappalamenti	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	13/837,456	3/15/13	9,306,978 B2	4/5/2016
Storage Architecture For Dynamic Resource Management And Service Level Objectives	Jason A. Lango, John K. Edwards, Nithin Mappalamenti	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	61/799,550	3/15/13		
Multi-Layered Storage Administration For Flexible Placement Of Data	Jason A. Lango, John K. Edwards, Nithin Mappalamenti	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	14/208,123	3/12/14	9,733,867 B2	8/15/2017
Expansion Of Services For A Virtual Data Center Guest	Jason A. Lango, James J. Voil, Andrew G. Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	WO	PCT/US14/23611	3/11/14		
Method and Computer-Readable Storage Medium for Expansion of Services for a Virtual Data Center Guest	Jason A. Lango, James J. Voil, Andrew G. Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	TAIWAN	103109129	3/13/14		

pa-1842147

(Signature page to Patent Assignment Agreement)

Computer System							
Storage Unit Selection For Virtualized Storage Units	Jason A. Lango, John K. Edwards	Bracket Computing, Inc. / Immutable Systems, Inc.	WO	PCT/US14/23814	3/11/14		
Storage Unit Selection For Virtualized Storage Units	Jason A. Lango, John K. Edwards	Bracket Computing, Inc. / Immutable Systems, Inc.	TAIWAN	103109684	3/14/14		
Allocating And Pricing Virtual Resources	James A. Scheinblum, Shalabh Mohan, Jason A. Lango, Thomas B. Gilles, Robert Van Zant	Bracket Computing, Inc. / Immutable Systems, Inc.	WO	PCT/US14/23815	3/11/14		
Allocating And Pricing Virtual Resources	James A. Scheinblum, Shalabh Mohan, Jason A. Lango, Thomas B. Gilles, Robert Van Zant	Bracket Computing, Inc. / Immutable Systems, Inc.	TAIWAN	103109685	3/14/14		
Automatic Tuning Of Virtual Data Center Resource Utilization Policies	Jason A. Lango, John K. Edwards, Nithin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	WO	PCT/US14/23816	3/11/14		
Automatic Tuning Of Virtual Data Center Resource Utilization Policies	Jason A. Lango, John K. Edwards, Nithin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	TAIWAN	103109686	3/14/14		
Multi-Layered Storage Administration For Flexible Placement Of Data	Jason A. Lango, John K. Edwards, Nithin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	WO	PCT/US14/25046	3/12/14		
Multi-Layered Storage Administration For Flexible Placement Of Data	Jason A. Lango, John K. Edwards, Nithin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	TAIWAN	103109709	3/14/14		
Expansion Of Services For a Virtual Data Center Guest	Jason Lango, James Voil, Andrew Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	AUSTRALIA	2014235789	3/11/14		
Expansion Of Services For a Virtual Data Center Guest	Jason Lango, James Voil, Andrew Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	BRAZIL	BR 11 2015 023588 3	3/11/14		

Expansion of Services for a Virtual Data Center Guest	Jason Lango, James Voll, Andrew Tucker	Bracket Computing, Inc. / Immutabile Systems, Inc.	CANADA	2,908,424	3/31/14		
Expansion of Services for a Virtual Data Center Guest	Jason Lango, James Voll, Andrew Tucker	Bracket Computing, Inc. / Immutabile Systems, Inc.	EPO	14718237.2	3/31/14		
Expansion of Services for a Virtual Data Center Guest	Jason Lango, James Voll, Andrew Tucker	Bracket Computing, Inc. / Immutabile Systems, Inc.	ISRAEL	241625	3/11/14		
Expansion of Services for a Virtual Data Center Guest	Jason A. Lango, James J. Voll, Andrew G. Tucker	Bracket Computing, Inc. / Immutabile Systems, Inc.	JAPAN	2016-501349	3/11/14		
Expansion of Services for a Virtual Data Center Guest	Jason A. Lango, James J. Voll, Andrew G. Tucker	Bracket Computing, Inc. / Immutabile Systems, Inc.	S. KOREA	10-2015-7029886	3/11/14		
Automatic Tuning of Virtual Data Center Resource Utilization Policies	Jason Lango, John Edwards, Nilton Muppalaeni	Bracket Computing, Inc. / Immutabile Systems, Inc.	AUSTRALIA	2014235793	3/11/14		
Automatic Tuning of Virtual Data Center Resource Utilization Policies	Jason Lango, John Edwards, Nilton Muppalaeni	Bracket Computing, Inc. / Immutabile Systems, Inc.	BRAZIL	BR 11 2015 023631 6	3/11/14		
Automatic Tuning of Virtual Data Center Resource Utilization Policies	Jason Lango, John Edwards, Nilton Muppalaeni	Bracket Computing, Inc. / Immutabile Systems, Inc.	CANADA	2,906,428	3/11/14		
Automatic Tuning of Virtual Data Center Resource Utilization Policies	Jason Lango, John Edwards, Nilton Muppalaeni	Bracket Computing, Inc. / Immutabile Systems, Inc.	EPO	14724820.7	3/11/14		
Automatic Tuning of Virtual Data Center Resource Utilization Policies	Jason Lango, John Edwards, Nilton Muppalaeni	Bracket Computing, Inc. / Immutabile Systems, Inc.	ISRAEL	241623	3/11/14		
Automatic Tuning of Virtual Data Center Resource Utilization Policies	Jason Lango, John Edwards, Nilton Muppalaeni	Bracket Computing, Inc. / Immutabile Systems, Inc.	JAPAN	2016-501351	3/11/14		
Automatic Tuning of Virtual Data Center Resource Utilization Policies	Jason Lango, John Edwards, Nilton Muppalaeni	Bracket Computing, Inc. / Immutabile Systems, Inc.	S. KOREA	10-2015-7029882	3/11/14		

pa-1842147

Multi-Layered Storage Administration for Flexible Placement of Data	Jason Lango, John Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	AUSTRALIA	2014235300	3/12/14		
Multi-Layered Storage Administration for Flexible Placement of Data	Jason Lango, John Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	BRAZIL	BR112015023565-4	3/12/14		
Multi-Layered Storage Administration for Flexible Placement of Data	Jason Lango, John Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	CANADA	2,905,534	3/12/14		
Multi-Layered Storage Administration for Flexible Placement of Data	Jason Lango, John Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	EPO	14725261.3	3/12/14		
Multi-Layered Storage Administration for Flexible Placement of Data	Jason Lango, John Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	ISRAEL	241617	3/12/14		
Multi-Layered Storage Administration for Flexible Placement of Data	Jason Lango, John Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	JAPAN	2016-501732	3/12/14		
Multi-Layered Storage Administration for Flexible Placement of Data	Jason Lango, John Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	S. KOREA	10-2015-7029884	3/12/14		
Storage Unit Selection for Virtualized Storage Units	Jason Lango, John Edwards	Bracket Computing, Inc. / Immutable Systems, Inc.	EPO	14717566.5	3/11/14		
Expansion Of Services For A Virtual Data Center Guest	Jason A. Lango, James J. Voll, Andrew G. Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	15/008,058	1/27/16	9,535,741 B1	1/3/2017
Automatic Tuning Of Virtual Data Center Resource Utilization Policies	Jason A. Lango, John K. Edwards, Nitin Muppalaeni	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	15/085,736	3/30/16	9,578,064 B2	2/21/2017
Threat Defense Techniques	Jason A. Lango, Dennis Ramesh, James J. Voll	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	15/483,971	4/10/17	9,892,256 B1	2/13/2018

Secure Boot of Virtualized Computing Instances	Jason A. Lango, Adam Cain, Nith Bahadur, John K. Edwards, Kevin George, William McGovern, Andrew G. Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	15/833,685	6/26/17	9,953,168	4/24/18
Threat Defense Techniques	JASON A. LANGO, DENNIS RAMDASS, JAMES J. VOIL	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	15/863,574	1/5/18		
Threat Defense Techniques	Jason A. Lango, Dennis Ramdass, James J. Voil	Bracket Computing, Inc. / Immutable Systems, Inc.	PCT	PCT/US18/17974	2/13/18		
Threat Defense Techniques	Jason A. Lango, Dennis Ramdass, James J. Voil	Bracket Computing, Inc. / Immutable Systems, Inc.	CHINA		1/1/18		
Secure Boot of Virtualized Computing Instances	Jason A. Lango, Adam Cain, Nith Bahadur, John K. Edwards, Kevin George, William McGovern, Andrew G. Tucker	Bracket Computing, Inc. / Immutable Systems, Inc.	USA	15/934,621	3/23/18		
Transparent Deployment of Intermediary Manager into Guest Operating System Network Traffic	Marcel Moolenaar	Bracket Computing, Inc. / Immutable Systems, Inc.	US	15/420,523	01/31/2017		
Transparent Deployment of Intermediary Manager into Guest Operating System Network Traffic	Marcel Moolenaar	Bracket Computing, Inc. / Immutable Systems, Inc.	CN	201810094409.2	01/31/2018		
Transparent Deployment of Intermediary Manager into Guest Operating System Network Traffic	Marcel Moolenaar	Bracket Computing, Inc. / Immutable Systems, Inc.	WO	PCT/US2018/014153	01/18/2018		
Tag-Based Policy Architecture	Jason A. Lango, Grant Callaghan, Marcel Moolenaar, Vinay Wagh, Rohan Desai, Matthew Page, Gary Meneses, Antoine Pouchet, Ranya Olichandran	Bracket Computing, Inc. / Immutable Systems, Inc.	US	15/661,618	07/27/2017		

pa-1842147

Network Policy Implementation in a Tag-Based Policy Architecture	Marcel Mooleenaar, Dennis Ramdass, Ranya Oichandran	Bracket Computing, Inc. / Immutable Systems, Inc.	US	15/692,890	08/31/2017		
Data Policy Implementation in a Tag-Based Policy Architecture	Rohan Desai, Jason A. Lango, Vinay Wagh, Nolan Karpinski, Antoine Pourchet	Bracket Computing, Inc. / Immutable Systems, Inc.	US	15/796,264	10/27/2017		

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