

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5182710

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
VIRTUAL INSTRUMENTS WORLDWIDE, INC.		10/10/2018
RECEIVING PARTY DATA		
Name:	WESTERN ALLIANCE BANK	
Street Address:	55 ALMADEN BOULEVARD, SUITE 100	
Internal Address:	ATTN: NOTE DEPARTMENT	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95113	
PROPERTY NUMBERS Total: 24		
Property Type	Number	
Patent Number:	10020994	
Patent Number:	9961094	
Patent Number:	9935858	
Patent Number:	9882841	
Patent Number:	9716638	
Patent Number:	9699032	
Patent Number:	9397880	
Patent Number:	9294194	
Patent Number:	9256503	
Patent Number:	9055693	
Patent Number:	8645527	
Patent Number:	8639797	
Patent Number:	8451731	
Patent Number:	8199641	
Patent Number:	7620986	
Patent Number:	7331060	
Patent Number:	6973040	
Patent Number:	6816910	
Application Number:	15946092	

Property Type	Number
Application Number:	15867685
Application Number:	15619425
Application Number:	14501820
Application Number:	14284753
Application Number:	14284254

CORRESPONDENCE DATA

Fax Number: (858)550-6420

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.

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Email: jmfitzpatrick@cooley.com

Correspondent Name: JENNIFER FITZPATRICK

Address Line 1: C/O COOLEY LLP

Address Line 2: 4401 EASTGATE MALL

Address Line 4: SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER:	305983-1040
NAME OF SUBMITTER:	JENNIFER FITZPATRICK
SIGNATURE:	/JENNIFER FITZPATRICK/
DATE SIGNED:	10/10/2018

Total Attachments: 4

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**FIRST AMENDMENT
TO
INTELLECTUAL PROPERTY SECURITY AGREEMENT**

This First Amendment to Intellectual Property Security Agreement is entered into as of October 10, 2018 (the “**Amendment**”) by and between **WESTERN ALLIANCE BANK**, an Arizona corporation (“**Bank**” or “**Lender**”) and **VIRTUAL INSTRUMENTS WORLDWIDE, INC.**, a California corporation (f/k/a Load Dynamix, Inc.) (“**Grantor**”).

RECITALS

Grantor and Lender are parties to that certain Intellectual Property Security Agreement dated as of April 4, 2016, as amended from time to time (the “IPSA”). The parties desire to amend the IPSA in accordance with the terms of this Amendment.

NOW, THEREFORE, the parties agree as follows:

1. Exhibit B (Trademarks) to the IPSA is hereby amended and restated in its entirety with Exhibit B attached hereto.
2. Exhibit C (Patents) to the IPSA is hereby amended and restated in its entirety with Exhibit C attached hereto.
3. Unless otherwise defined, all initially capitalized terms in this Amendment shall be as defined in the IPSA. The IPSA, as amended hereby, shall be and remain in full force and effect in accordance with its respective terms and hereby is ratified and confirmed in all respects. Except as expressly set forth herein, the execution, delivery, and performance of this Amendment shall not operate as a waiver of, or as an amendment of, any right, power, or remedy of Lender under the IPSA, as in effect prior to the date hereof. Grantor ratifies and reaffirms the continuing effectiveness of all agreements entered into in connection with the IPSA.
4. This Amendment may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one instrument.

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IN WITNESS WHEREOF, the undersigned have executed this Amendment as of the first date above written.

GRANTOR:

Address of Grantor:

VIRTUAL INSTRUMENTS WORLDWIDE, INC.

2331 Zanker Road
San Jose, CA 95110

By: Peter A Dayton
Name: Peter Dayton
Title: Chief Financial Officer

BANK:

Address of Bank:

WESTERN ALLIANCE BANK

55 Almaden Boulevard, Suite 100
San Jose, CA 95113
Attn: Note Department

By: [Signature]
Name: Jeff Brown
Title: VP

EXHIBIT B
Trademarks

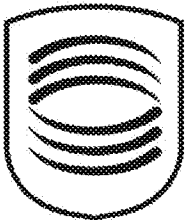
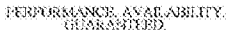

Description	Registration/ Serial Number	Registration/ Application Date
WORKLOADWISDOM	87/415,302	04/18/17
CLOUDWISDOM	86/703,107	07/23/15
APPWISDOM	86/703/071	07/23/15
Load Dynamix logo	4,657,508	12/16/14
	4,585,640	08/12/14
	4,466,529	01/14/14
VIRTUAL INSTRUMENTS	4,168,201	07/03/12
	3,885,358	12/07/10
XANGATI	3,876,204	11/16/10
VIRTUALWISDOM	3,756,036	03/02/10

EXHIBIT C

Patents

Description	Patent / Application Number	Issue / Application Date
Automatically Determining Locations of Network Monitors in a Communication	10,020,994	07/10/18
Symptom detection using behavior probability density, network monitoring of multiple observation value types, and network monitoring using orthogonal profiling dimensions	9,961,094	05/01/18
Enhanced Flow Processing	9,935,858	04/03/18
Validating workload distribution in a storage area network	9,882,841	01/30/18
Push pull data collection	9,716,638	07/25/17
Storage area network queue depth profiler	9,699,032	07/04/17
Network monitoring using virtual packets	9,397,880	07/19/16
Network monitoring using thin film splitters and avalanche photodiode detectors in multimode application	9,294,194	03/22/16
Data Verification	9,256,503	02/09/16
Reversible fan module for electronic circuit assemblies	9,055,693	06/09/15
Network monitoring using bounded memory data structures	8,645,527	02/04/14
Network monitoring of behavior probability density	8,639,797	01/28/14
Network monitoring using virtual packets	8,451,731	05/28/13
Parallel distributed network monitoring	8,199,641	06/12/12
Defenses against software attacks in distributed computing environments	7,620,986	11/17/09
Dynamic DoS flooding protection	7,331,060	02/12/08
Method of maintaining lists of network characteristics	6,973,040	12/06/05
Method and apparatus for limiting network connection resources	6,816,910	11/09/04
Symptom detection using behavior probability density, network monitoring of multiple observation value types, and network monitoring using orthogonal profiling dimensions	15/946,092	4/5/2018
Enhanced flow processing	15/867,685	1/10/2018
Push pull data collection	15/619,425	6/9/2017
Virtual Machine Processor & Memory Resource Coordinator	14/501,820	09/30/14
Performance Analysis of a Time-Varying Network	14/284,753	05/22/14
Identifying Problems In A Storage Area Network	14/284,254	05/21/14