504665316 11/30/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4712038

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOE HAVER	10/10/2017
HOWARD JOHN THOMAS	09/21/2017
JOHN GOVERT	11/29/2017

RECEIVING PARTY DATA

Name:	VIAVI SOLUTIONS INC
Street Address:	430 N. MCCARTHY BOULEVARD
City:	MILPITAS
State/Country:	CALIFORNIA
Postal Code:	95035

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15697207	

CORRESPONDENCE DATA

Fax Number: (571)432-0808

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: 571-432-0800

Email: aschulman@harrityllp.com HARRITY & HARRITY, LLP **Correspondent Name:** Address Line 1: 11350 RANDOM HILLS ROAD

Address Line 2: SUITE 600

Address Line 4: FAIRFAX, VIRGINIA 22030

ATTORNEY DOCKET NUMBER:	0099-0161
NAME OF SUBMITTER:	NATHAN F. PHARES
SIGNATURE:	/NATHAN F. PHARES, REG. NO. 72,592/
DATE SIGNED:	11/30/2017

Total Attachments: 6

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> **PATENT REEL: 044265 FRAME: 0605** 504665316

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> PATENT REEL: 044265 FRAME: 0606

ASSIGNMENT (Joint) Worldwide Rights

THIS ASSIGNMENT, by <u>Joe HAVER</u>, <u>Howard John THOMAS</u>, and <u>John GOVERT</u>, residing at 4938 Rainbow Gulch Trail, Colorado Springs, CO 80924 US, Whitecroft, Middleyard, Stonehouse GL10 3QQ GB, and <u>123 Lake Hogan Farm Road</u>, <u>Chapel Hill, NC 27516 US</u> (hereinafter referred to as "the Assignors"), respectively, witnesseth:

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS, Viavi Solutions Inc., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 430 N. McCarthy Boulevard, Milpitas, CA 95035 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application or from which said application claims priority, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

" and " military and the committee of th	
Joe HAVER	Witness Signature
Date: 10/10/2017	Witness Name
Howard John THOMAS	Witness Signature
Date:	Witness Name
John GOVERT	Witness Signature
Date:	Witness Name

ASSIGNMENT (Joint) Worldwide Rights

THIS ASSIGNMENT, by <u>Ioe HAVER</u>, <u>Howard John THOMAS</u>, and <u>John GOVERT</u>, residing at <u>4938 Rainbow Gulch Trail</u>, <u>Colorado Springs</u>, <u>CO 80924 US</u>, <u>Whitecroft</u>, <u>Middleyard</u>, <u>Stonehouse GL10 3QQ GB</u>, respectively, witnesseth:

WHEREA: <u>MONITORING</u> set	S, the Assignors have invented certain new forth in an application for Letters Patent of the	v and useful improvements in <u>DATA_STREAM</u> c United States,
(1)	which is a provisional application (a) filed herewith; or (b) bearing Application No.	, and filed on; or
(2)	which is a non-provisional application	1207 and filed on September 6, 2017

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or social number, as appropriate.

WHEREAS, Viavi Solutions Inc., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 430 N. McCarthy Boulevard, Milpitas, CA 95035 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application or from which said application claims priority, and in and 40 any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth:

Joint Assignment Attorney's Docket No.: 0099-0161

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application elaiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignce, its successors, legal representatives, and assigns, but at the cost and expense of the Assignce, its successors, legal representatives, and assigns, but at the cost and expense of the

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Joe HAVER	Witness Signature
Date:	Witness Name
Hyward John THOMAS	Uno My Witness Signature
Date: 21/01/2017	CHRIS WURPING Witness Name
John GOVERT	Witness Signature
Date:	Witness Name

ASSIGNMENT (Joint) Worldwide Rights

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		(8)		filed herewith; or	
		(b)		bearing Application No, and filed on; o	33
					-,
(2)	\boxtimes	which	is	a non-provisional application bearing Application No. 15/697,207, and filed on September 6, 2017; of	
		(3)	\boxtimes	bearing Application No. 15/697,207, and filed on September 6, 2017; of	4
				filed herewith; and	

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS. Viavi Solutions Inc., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 430 N. McCarthy Boulevard, Milpitas, CA 95035 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application or from which said application claims priority, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

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AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

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AND the Assignors hereby request the Commissioner of Parents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Joe HAVER	Witness Signature	
Date:		
	Witness Name	
	1 garage	
Howard John THOMAS	Witness Signature	
Date:	Witness Name	
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-/ \	:	
I WAY JOY	Witness Signatury	used ⁽²⁾
Josh GOVERT	witness signature	
11 1216171611	The White	
Date: 11 1 21 44 1	Witness Name	

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