

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAI VINEEL REDDY CHITTAMURU	07/16/2019
ISHAN THAKKAR	07/15/2019
SUDEEP PASRICHA	07/18/2019
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State/Country:	COLORADO
Postal Code:	80526
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Property Type	Number
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SIGNATURE:	/T. Paul Tanpitukpongse/
DATE SIGNED:	11/07/2019
Total Attachments: 4	
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ASSIGNMENT

For valuable consideration, we, **Sai Vineel Reddy Chittamuru** of Fort Collins, CO; **Sudeep Pasricha** of Fort Collins, CO; and **Ishan Thakkar** of Fort Collins, CO, hereby assign to **Colorado State University Research Foundation**, a corporation of Colorado, having a place of business at 2537 Research Blvd, Suite 200, Fort Collins, CO 80526, and its successors and assigns (collectively hereinafter "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are subject of an application for United States Patent, titled "**HARDWARE SECURITY FOR PHOTONIC COMMUNICATION ARCHITECTURES**," filed **June 7, 2019**, and assigned U.S. Patent Application No. **16/434,420**, this assignment including said application, any and all divisional, continuing, substitute, renewal, reissue and all other applications for patent that have been or shall be filed in the United States and all foreign countries on any such inventions or improvements; all original and reissued patents that have been or shall be issued in the United States and all foreign countries on such inventions or improvements; and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 07/16/2019

C. Sai Vineel
Sai Vineel Reddy Chittamuru

WITNESSED BY:

[Signature]
Signature of Witness

YUN JUN HUM
Name of Witness

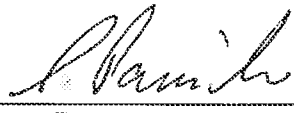
7/16/2019
Date

[Signature]
Signature of Witness

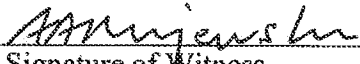
Luke Hemarga
Name of Witness

7/16/19
Date

Date: 07/18/19

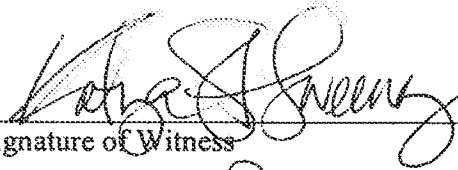

Sudeep Pasricha

WITNESSED BY:


Signature of Witness

ANTHONY A. MACIEJEWSKI
Name of Witness

7/18/19
Date


Signature of Witness

Katha Stewart Sweeney
Name of Witness

7/18/19
Date

Date: 07/15/2019

Ishan Thakkar
Ishan Thakkar

WITNESSED BY:

A Thakkar
Signature of Witness

AMEE THAKKAR
Name of Witness

07/15/2019
Date

J. Thakkar
Signature of Witness

Jhanshyam Thakkar
Name of Witness

07/15/2019
Date