

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
	Name	Execution Date	
	MAYANK RAJ	09/30/2014	
	AZITA EMAMI	09/30/2014	
RECEIVING PARTY DATA			
Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY		
Street Address:	1200 E. CALIFORNIA BLVD		
Internal Address:	MAIL CODE 210-85		
City:	PASADENA		
State/Country:	CALIFORNIA		
Postal Code:	91125-8500		
PROPERTY NUMBERS Total: 1			
	Property Type	Number	
	Application Number:	14726406	
CORRESPONDENCE DATA			
Fax Number:			
<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>			
Phone:	352-505-9200		
Email:	IP-Paralegal@turkiplaw.com		
Correspondent Name:	TURK IP LAW, LLC		
Address Line 1:	2885 SANFORD AVE. S.W. #23998		
Address Line 4:	GRANDVILLE, MICHIGAN 49418		
ATTORNEY DOCKET NUMBER:	2817.0310USC1		
NAME OF SUBMITTER:	CARL K TURK		
SIGNATURE:	/Carl K Turk/		
DATE SIGNED:	05/29/2015		
Total Attachments: 4			
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ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Azita Emami residing at 1069 S. Oakland Ave., Pasadena, CA 91106, and

Mayank Raj residing at 1001 E Villa St, AP. 19, Pasadena, CA 91125,

"Assignors" effective as of June 14, 2014, to the extent that Assignor may have any right, title or interest in the Invention (as defined below), hereby sell, assign, transfer, and conveys unto

(A) CALIFORNIA INSTITUTE OF TECHNOLOGY, an entity having its principal place of business in United States of America at 1200 E. California Blvd. Mail Code 210-85, Pasadena, CA 91125-8500 (**"Assignee"**), all right, title, and interest that exist today and may exist in the future in and to any and all of the following items (1) through (8) below:

1. the inventions disclosed in the solution report/invention disclosure titled **"NON-LINEAR VERTICAL-CAVITY SURFACE-EMITTING LASER EQUALIZATION"** and all inventions claimed and/or described in the Application (collectively, the **"Invention"**);
2. the patent applications listed in the table below (the **"Application"**);

<u>Patent Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title</u>
61/905,637	U.S.	November 18, 2013	NOVEL VCSEL EQUALIZATION TECHNIQUE
14/502,864	U.S.	September 30, 2014	NON-LINEAR VERTICAL-CAVITY SURFACE-EMITTING LASER EQUALIZATION
14/726,406	US	May 29, 2015	NON-LINEAR VERTICAL-CAVITY SURFACE-EMITTING LASER EQUALIZATION

3. all rights with respect to the Invention, including all UNITED STATES patents or other governmental grants or issuances that may be granted with respect to the Invention or from any direct or indirect divisionals, continuations, continuations-in-part, or other patent applications claiming priority rights from the Application (**"Potential Patents"**);
4. all reissues, reexaminations, extensions, or registrations of the Potential Patents;
5. all non-United States patents, patent applications, and counterparts relating to any or all of the Invention, the Application, and the Potential Patents, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances (**"Foreign Rights"**), and including the right to file foreign applications directly in the name of Assignee, its successors and assigns;

6. all rights to claim priority rights deriving from the Application;
7. all causes of action and remedies related to any or all of the Application, the Invention, the Potential Patents, and the Foreign Rights (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and
8. any and all other rights and interests arising out of, in connection with, or in relation to the Application, the Invention, Potential Patents, and the Foreign Rights.

As used in this Assignment, "Assignee" means, collectively, the U.S. Assignee and the Non-U.S. Assignee. Assignor will not sign any document or do any act conflicting with this Assignment, and, without further compensation, will sign all documents and do such additional acts as Assignee, its successors, legal representatives, and assigns deem necessary or desirable to perfect enjoyment of the Rights, conduct proceedings regarding the Rights (including any litigation or interference proceedings), or perfect or defend title to the Rights. Assignor requests the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

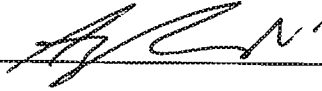
Assignor hereby authorizes and requests authorized representative to insert on this Assignment any and all information necessary in the table in Section 2 above, including the filing dates, Patent Application Numbers, and titles when known.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, legal representatives, and assigns and will be binding upon Assignor, their successors, legal representatives and assigns.

[Signature Page(s) to Follow]

By:

Azita Emami



NOTARIZATION

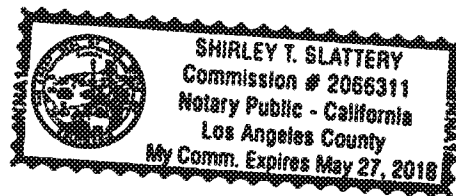
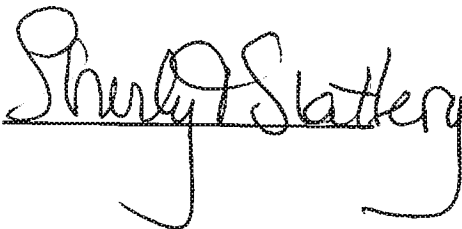
STATE OF California)
COUNTY OF Los Angeles) ss.

On Sept. 30, 2014, 2014, before me, Shirley T. Slattery, Notary Public,
personally appeared Azita Emami, who proved to me on the basis of satisfactory evidence
to be the person whose name is subscribed to the within instrument and acknowledged to me
that ^{she} he executed the same in his authorized capacity, and that by ^{her} his signature(s) on the
instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the
instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature



By:

Mayank Raj *DR*

NOTARIZATION

STATE OF California)
COUNTY OF Los Angeles) ss.

On Sept. 30, 2014, before me, Shirley T. Slattery, Notary Public, personally appeared Mayank Raj, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Shirley T. Slattery

