### 505159648 10/25/2018

## **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5206415

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RUZAN SOKHOYAN	10/12/2018
YU-JUNG LU	10/15/2018
GHAZALEH KAFAIE SHIRMANESH	10/12/2018
HARRY ATWATER	10/15/2018
RAGIP PALA	10/15/2018

#### **RECEIVING PARTY DATA**

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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16170573

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NAME OF SUBMITTER:	DENNIS E BUTLER - TEAMS
SIGNATURE:	/Dennis Butler/
DATE SIGNED:	10/25/2018

**Total Attachments: 1** 

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PATENT 505159648 REEL: 047313 FRAME: 0336

# Assignment

Whereas, We, Ruzan SOKHOYAN, Pasadena, California; Yu-Jung LU, Pasadena, California; Ghazaleh KAFAIE SHIRMANESH, Pasadena, California; Ragip PALA, Pasadena, California; and Harry ATWATER, Pasadena, California, respectively, hereinafter called assignors, have invented certain improvements in OPTICAL MODULATING DEVICE AND APPARATUS INCLUDING THE SAME and executed an application for Letters Patent of the United States of America therefor; and

Whereas, CALIFORNIA INSTITUTE OF TECHNOLOGY of 1200 E. California Blvd., MC 6-32, Pasadena, CA 91125 (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States when called upon to do so by the assignee.

	We hereby authori	ze and request our attorneys SUGHRUE MION, PLLC of 2100				
Penns	ylvania Avenue, NV	7, Washington, DC 20037-3213 to insert here in parentheses				
(Appl	ication number	and Confirmation number, filed				
~	) the	application number, confirmation number and filing date of said				
applic	ation when known.					
Date:	10/12/2018	- ChR				
	s/R	izan SOKHOYAN (				
Date:	10/15/2018	You Tay (a)				
	s/Y	1-Jung LU				
Date:	_10,12,18	to to be				
s/Ghazaleh KAFAIE SHIRMANESH						
Date:	10/15/18	Mrs A AluAA				
	s/F	arry ATWATER				
Date:	10/15/18	Lab				
	s/R	gip PALA				

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 047313 FRAME: 0337

**RECORDED: 10/25/2018**