PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUNG-YON KIM	08/18/2014
KARL A. DEISSEROTH	08/08/2014
AVISHEK ADHIKARI	03/17/2014

RECEIVING PARTY DATA

Name:	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY
Street Address:	OFFICE OF THE GENERAL COUNSEL, BUILDING 170, 3RD FLOOR, MAIN QUAD
Internal Address:	P.O. BOX 20386
City:	STANFORD
State/Country:	CALIFORNIA
Postal Code:	94305-2038

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14776513

CORRESPONDENCE DATA

Fax Number: (650)327-3231

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: 6503273400
Email: lam@bozpat.com

Correspondent Name: BOZICEVIC, FIELD & FRANCIS LLP

Address Line 1: 1900 UNIVERSITY AVENUE

Address Line 2: SUITE 200

Address Line 4: EAST PALO ALTO, CALIFORNIA 94303

ATTORNEY DOCKET NUMBER: STAN-1017

NAME OF SUBMITTER: PAULA A. BORDEN

SIGNATURE: /Paula A. Borden, Reg. No. 42,344/

DATE SIGNED: 09/15/2015

Total Attachments: 4

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Any Docker No. STAN-1017WO

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THIS ASSIGNMENT, by Sung-Yon Kim, residing in Stanford, California, Karl A. Deisseroth, residing in Stanford, California, Avishek Adhikari, residing in Stanford, California, (hereinafter referred to as the assignors), witnesseth:

WHEREAS, the said assignors have invented certain new and useful improvements in:

"Optogenetic		

X	filed on March 14, 2014 as PCT International Application No. US2014/028807 designating the United
	States.
	for which an application for a United States Patent was executed on, and
WHED	FAS. The Roard of Tructors of the Laland Stanford Inniar University, a non-profit organization

WHEREAS, The Board of Trustees of the Leland Stanford Junior University, a non-profit organization duly organized under and pursuant to the laws of California, and having its principal place of business at 1705 El Camino Real. Palo Alto, California 94306-1106 (hereinafter referred to as the assignee), is desirous of acquiring their right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said 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, all of their right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or 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 said 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, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and that said 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, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, 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 for said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assigners hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

assignee, its successors, legal representa	tives and assigns.	and the second second
Date 3/18/2014	Name of Inventor	were the second
	Sung-Yon Kim	
Date	Name of Inventor	
	Karl A. Deisseroth	
Date	Name of Inventor	
	Avishek Adhikari	

Atty Docket No. STAN-1017WO

Page 1 of 2

THIS ASSIGNMENT, by Sung-You Kim, residing in Stanford, California, Karl A. Deisseroth, residing in Stanford, California, Avishek Adhikari, residing in Stanford, California, (hereinafter referred to as the assignors), witnesseth:

WHEREAS, the said assignors have invented certain new and useful improvements in:

"Optogenetic Control of Behavioral State"

<u>X</u>	filed on March 14, 2014 as PCT International Application No. US2014/028807 designating the United
	States.
	for which an application for a United States Patent was executed on, and

WHEREAS, The Board of Trustees of the Leland Stanford Junior University, a non-profit organization duly organized under and pursuant to the laws of California, and having its principal place of business at 1705 El Camino Real, Palo Alto, California 94306-1106 (hereinafter referred to as the assignee), is desirous of acquiring their right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said 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, all of their right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or 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 said 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, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and that said 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, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, 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 for said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

Date	Name of Inventor
Date 8/8/17	Name of Inventor Karl A. Deisseroth
Date	Name of InventorAvishek Adhikari

AttyDocket No. STAN-1017WO

Page 1 of 1

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AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

Date	Name of Inventor
	Sung-Yon Kim
Date	Name of Inventor
	Karl A. Deisseroth
Date 03/17/2014	Name of Inventor Que Qou
	Avishek Adhikari

Atty Docket No. STAN-1017WO US2014/028807 Filed March 14, 2014

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Hereby accepted on behalf of the assignee

Signature

8/22/2014

Paula Borden

Date

Name (print)

Senior Patent Agent

Bozicevic, Field and Francis LLP

Title and Company

PATENT REEL: 036570 FRAME: 0323

RECORDED: 09/15/2015