

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
WASHINGTON UNIVERSITY		04/22/2020
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CALIFORNIA INSTITUTE OF TECHNOLOGY	
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<b>City:</b>	PASADENA	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	91125	
<b>PROPERTY NUMBERS Total: 6</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Patent Number:</b>	7917312	
<b>Patent Number:</b>	9335605	
<b>Patent Number:</b>	9234841	
<b>Patent Number:</b>	8416421	
<b>Patent Number:</b>	8997572	
<b>Patent Number:</b>	10359400	
<b>CORRESPONDENCE DATA</b>		
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<b>NAME OF SUBMITTER:</b>	ALEXANDRA C. MENDE, PARALEGAL	
<b>SIGNATURE:</b>	/Alexandra C. Mende/	
<b>DATE SIGNED:</b>	07/15/2020	
<b>Total Attachments: 2</b>		

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## ASSIGNMENT

Whereas **Washington University**, having a place of business at One Brookings Drive, St. Louis, Missouri, 63130 ("ASSIGNOR") and **California Institute of Technology**, having a place of business at 1200 East California Blvd., Pasadena, California 91125 ("ASSIGNEE"), have agreed that ASSIGNEE shall acquire from ASSIGNOR the following patent and/or patent application ("PATENT PROPERTIES"):

U.S. Patent No.	U.S. Patent Appl. No.	Filing or 371(c) Date	Issue Date	Inventors
7,917,312	12/254,643	October 20, 2008	March 29, 2011	Lihong Wang; Hui Fang; and Konstantin Maslov
9,335,605	14/026,577	September 13, 2013	May 10, 2016	Lihong Wang; and Xiao Xu
9,234,841	13/574,994	August 14, 2012	January 12, 2016	Lihong Wang; and Xiao Xu
8,416,421	12/568,069	September 28, 2009	April 9, 2013	Lihong Wang; and Li Li
8,997,572	13/369,558	February 9, 2012	April 7, 2015	Lihong Wang; Liang Song; Konstantin Maslov; and Bin Rao
10,359,400	14/639,676	March 5, 2015	July 23, 2019	Lihong Wang; Liang Song; Konstantin Maslov; and Bin Rao

Therefore, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and conveys to ASSIGNEE, its designees, successors, assigns and legal representatives, its entire right, title and interest in the PATENT PROPERTIES and all divisions, continuations, reissues and reexaminations thereof, the inventions disclosed therein ("INVENTIONS"), and all rights to claim priority from the PATENT PROPERTIES, and to all applications for patent that may be filed for the INVENTIONS in any foreign country, and all patents that may be granted on the INVENTIONS in any foreign country, and all extensions, renewals, and reissues thereof; and the right to recover and to bring proceedings to recover damages and/or obtain other remedies for patent infringement whether committed before or after the date of this Assignment; each and every of the foregoing rights, titles and interests herein assigned shall be held and enjoyed by ASSIGNEE, its successors, assigns and legal representatives, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

IN TESTIMONY WHEREOF, ASSIGNOR has caused this Assignment to be duly executed in its name and behalf by its designated officer, director, or agent, whose name and title appear below.

Executed at St. Louis, Missouri, USA this 22<sup>nd</sup> day of April, 2020, the effective date of this Assignment.

Nichole R. Mercier  
Signature

Name: Nichole R. Mercier  
Title: Assistant Vice Chancellor and Managing Director  
Washington University  
One Brookings Drive  
St. Louis, MO 63130

RECEIVED AND HEREBY ACCEPTED BY ASSIGNEE, California Institute of Technology:

Executed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2020, the effective date of this Assignment.

Frederic Farina Digitally signed by Frederic Farina  
Date: 2020.07.15 09:49:44 -07'00'  
Signature

Name: Frederic Farina  
Title: Chief Innovation and Corporate Partnerships Officer  
Office of Technology Transfer and Corporate Partnerships  
California Institute of Technology  
1200 E. California Blvd., MC 6-32  
Pasadena, California 91125 USA