

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
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MICHELLE C. SHERROTT	12/14/2019
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PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	16723108
PCT Number:	US2019067901
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DATE SIGNED:	12/20/2019
Total Attachments: 4	
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ASSIGNMENT

We, William S. WHITNEY, residing in United States of America with a mailing address at 2407 E. Helen St., Seattle, WA, 98112,

Michelle C. SHERROTT, residing in United States of America with a mailing address at 269 Harvard St., Apt. 19, Cambridge, MA, 02139, and

Harry A. ATWATER, residing in United States of America with a mailing address at 1945 Leman St., South Pasadena, CA, 91030,

hereby sell and assign for good and valuable consideration, the receipt of which we hereby acknowledge,

to CALIFORNIA INSTITUTE OF TECHNOLOGY, an entity having its principal place of business in United States of America at 1200 E. California Blvd., M/C 210-85, Pasadena, CA, 91125,

hereinafter referred to as the assignee, its successors, assigns and nominees, our entire right, title and interest, including all priority rights under U.S. law and/or International conventions and treaties, in and to the "BLACK PHOSPHORUS OPTICAL MODULATORS FOR PHASE, AMPLITUDE AND POLARIZATION CONTROL"

invented by us, as described and/or claimed in United States Patent Application 62/783,407, filed on December 21, 2018, in the corresponding U.S. Patent Application. in the corresponding PCT Patent Application, and in any other related patent applications filed and/or to be filed not only for, to and in the United States of America its territories and possessions, but also for, to and in all other countries, including any and all divisions, reissues, continuations, continuations-in-part and extensions of said U.S. Provisional Application No. 62/783,407 and/or U.S. Patent Application. We hereby authorize and request Enrica Bruno or Alessandro Steinfl of the Firm Steinfl + Bruno to insert here in parentheses

the application numbers and filing dates of said U.S. Patent Application (U.S. Patent Application No. 16/723,108 Filing date December 20, 2019;) and said PCT Patent Application (PCT Application No. PCT/US2019/067901 Filing date December 20, 2019;) when known. We further authorize and request any officials whose duty it is to issue patents, to issue any patent on said "BLACK PHOSPHORUS OPTICAL MODULATORS FOR PHASE, AMPLITUDE AND POLARIZATION CONTROL" and/or improvements thereof or resulting therefrom to said assignee or its successors, assigns or nominees, and agree to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part and/or reissue applications, make all rightful oaths and/or declarations and generally do everything possible to aid said assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in the United States of America and in all other countries.

Subscribed and executed at Seattle, WA USA
City Country

On December 15, 2019
Date

Inventor Name: William S. WHITNEY

Inventor Signature William Whitney

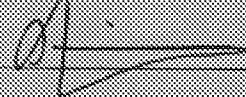
Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____

Subscribed and executed at Mountain View, CA USA
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 On 12/14/19
 Date

Inventor Name: Michelle C. SHERROTT

Inventor Signature 

Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____

Subscribed and executed at _____
 City Country
 On _____
 Date

Inventor Name: Harry A. ATWATER

Inventor Signature _____

Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____

Subscribed and executed at _____

City

Country

On _____

Date

Inventor Name: Michelle C. SHERROTT

Inventor Signature _____

Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____

Subscribed and executed at Pasadena, California, United States of America

City

Country

On December 18, 2019

Date

Inventor Name: Harry A. ATWATER

Inventor Signature Harry A. Atwater

Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____