

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	ANDREW CANNON CARTER	03/18/2019
RECEIVING PARTY DATA		
Name:	OCLARO TECHNOLOGY LIMITED	
Street Address:	CASWELL, TOWCESTER	
City:	NORTHAMPTONSHIRE	
State/Country:	UNITED KINGDOM	
Postal Code:	NN12 8EQ	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16331926	
CORRESPONDENCE DATA		
Fax Number:	(571)432-0808	
<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:	5714320800	
Email:	rallen@harrityllp.com	
Correspondent Name:	HARRITY & HARRITY, LLP	
Address Line 1:	11350 RANDOM HILLS ROAD	
Address Line 2:	SUITE 600	
Address Line 4:	FAIRFAX, VIRGINIA 22030	
ATTORNEY DOCKET NUMBER:	0100-0216NAT	
NAME OF SUBMITTER:	RACHEL ALLEN	
SIGNATURE:	/Rachel Allen/	
DATE SIGNED:	04/04/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 2		
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COMBINED DECLARATION AND ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Oclaro Technology Limited, having a place of business at Caswell, Towcester, Northamptonshire, United Kingdom NN12 8EQ ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional or non-provisional application filed under 35 U.S.C. § 111, design application filed under 35 U.S.C. § 171, Registered Community Designs, international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"), and any patents issuing thereon ("PATENT RIGHTS"):

- U.S. Application No. 16/331,926, entitled "Tuneable DBR Laser Without External Frequency Locker," which is a National Phase Entry of International Application No. PCT/GB2017/052906, filed on September 28, 2017, which claims priority from GB Application No. 1616633.2, filed on September 30, 2016.

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not

A. C. Cate
10/3/19

Title:	Tuneable DBR Laser Without External Frequency Locker		
Filed:	March 8, 2019	Attorney Docket #:	30122-43051/US
Application #:	16/331,926	Client Ref #:	PX215550US

hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

By signing below, INVENTOR further attests to the following:

- The APPLICATION was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATION.

INVENTOR hereby acknowledges that any willful false statement made in this document is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Name and Signature

Date of Signature (REQUIRED)

Andrew C. Carter
Andrew Cannon Carter

18th March 2019