

PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Patent Security Agreement

CONVEYING PARTY DATA

Name	Execution Date
OCLARO PHOTONICS, INC.	07/26/2011

RECEIVING PARTY DATA

Name:	Wells Fargo Capital Finance, Inc., as Agent
Street Address:	2450 Colorado Avenue, Suite 3000 West
City:	Santa Monica
State/Country:	CALIFORNIA
Postal Code:	90404

PROPERTY NUMBERS Total: 28

Property Type	Number
Patent Number:	7866897
Patent Number:	7830608
Patent Number:	7680170
Patent Number:	5438580
Patent Number:	5550852
Patent Number:	5696784
Patent Number:	5745519
Patent Number:	5801403
Patent Number:	5898721
Patent Number:	6028878
Patent Number:	6091752
Patent Number:	6268653
Patent Number:	6351481
Patent Number:	6493148
Patent Number:	6516011

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Patent Number:	6600605
Patent Number:	6768753
Patent Number:	6796899
Patent Number:	6885793
Patent Number:	6936103
Patent Number:	7058101
Patent Number:	6298077
Patent Number:	6298078
Patent Number:	6370291
Patent Number:	6455341
Application Number:	12990215
Application Number:	12337275
Application Number:	13004679

**CORRESPONDENCE DATA**

Fax Number: (949)760-0182  
Phone: 949-760-1121  
Email: patent@buchalter.com  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*  
Correspondent Name: Sandra P. Thompson, PhD.  
Address Line 1: 18400 Von Karman Avenue, Ste 800  
Address Line 4: Irvine, CALIFORNIA 92612

ATTORNEY DOCKET NUMBER:	F6384-1244
NAME OF SUBMITTER:	Sandra P. Thompson, PhD.

Total Attachments: 8  
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## PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement") is made this 26th day of July, 2011, by and among the Grantors listed on the signature pages hereof (collectively, jointly and severally, "Grantors" and each individually "Grantor"), and **WELLS FARGO CAPITAL FINANCE, INC.**, a California corporation ("WFCF"), in its capacity as agent for the Lender Group and the Bank Product Providers (in such capacity, together with its successors and assigns in such capacity, "Agent").

### WITNESSETH:

WHEREAS, pursuant to that certain Amended and Restated Credit Agreement dated as of July 26, 2011 (as amended, restated, supplemented, or otherwise modified from time to time, the "Credit Agreement") by and among Oclaro, Inc., a Delaware corporation ("Parent"), and Oclaro Technology Limited, a company incorporated under the laws of England and Wales, as borrower ("Borrower"), the lenders party thereto as "Lenders" (such Lenders, together with their respective successors and assigns in such capacity, each, individually, a "Lender" and, collectively, the "Lenders"), and Agent, the Lender Group has agreed to make certain financial accommodations available to Borrower from time to time pursuant to the terms and conditions thereof; and

WHEREAS, the members of Lender Group are willing to make the financial accommodations to Borrower as provided for in the Credit Agreement, but only upon the condition, among others, that the Grantors shall have executed and delivered to Agent, for the benefit of the Lender Group and the Bank Product Providers, that certain Security Agreement (Domestic), dated as of July 26, 2011 (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Security Agreement"); and

WHEREAS, pursuant to the Security Agreement, Grantors are required to execute and deliver to Agent, for the benefit of the Lender Group and the Bank Product Providers, this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby agrees as follows:

1. DEFINED TERMS. All initially capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement or, if not defined therein, in the Credit Agreement.

2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL. Each Grantor hereby unconditionally grants, assigns, and pledges to Agent, for the benefit each member of the Lender Group and each of the Bank Product Providers, to secure the Secured Obligations, a continuing security interest (referred to in this Patent Security Agreement as the "Security Interest") in all of such Grantor's right, title and interest in and to the following, whether now owned or hereafter acquired or arising and subject to any exclusions set forth in the Security Agreement (collectively, the "Patent Collateral"):

(a) all of its Patents and Patent Intellectual Property Licenses to which it is a party including those referred to on Schedule I;

(b) all divisionals, continuations, continuations-in-part, reissues, reexaminations, or extensions of the foregoing; and

(c) all products and proceeds of the foregoing, including any claim by such Grantor against third parties for past, present or future infringement of any Patent or any Patent exclusively licensed under any Intellectual Property License, including the right to receive damages, or right to receive license fees, royalties, and other compensation under any Patent Intellectual Property License.

3. SECURITY FOR SECURED OBLIGATIONS. This Patent Security Agreement and the Security Interest created hereby secures the payment and performance of the Secured Obligations, whether now existing or arising hereafter. Without limiting the generality of the foregoing, this Patent Security Agreement secures the payment of all amounts which constitute part of the Secured Obligations and would be owed by Grantors, or any of them, to Agent, the Lender Group, the Bank Product Providers or any of them, whether or not they are unenforceable or not allowable due to the existence of an Insolvency Proceeding involving any Grantor.

4. SECURITY AGREEMENT. The Security Interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interests granted to Agent, for the benefit of the Lender Group and the Bank Product Providers, pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of Agent with respect to the Security Interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. To the extent there is any inconsistency between this Patent Security Agreement and the Security Agreement, the Security Agreement shall control.

5. AUTHORIZATION TO SUPPLEMENT. If any Grantor shall obtain rights to any new patent application or issued patent or become entitled to the benefit of any patent application or patent for any divisional, continuation, continuation-in-part, reissue, or reexamination of any existing patent or patent application, the provisions of this Patent Security Agreement shall automatically apply thereto. Grantors shall give prompt notice in writing to Agent with respect to any such new patent rights. Without limiting Grantors' obligations under this Section, Grantors hereby authorize Agent unilaterally to modify this Patent Security Agreement by amending Schedule I to include any such new patent rights which constitute Collateral of each Grantor. Notwithstanding the foregoing, no failure to so modify this Patent Security Agreement or amend Schedule I shall in any way affect, invalidate or detract from Agent's continuing security interest in all Collateral, whether or not listed on Schedule I.

6. COUNTERPARTS. This Patent Security Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same Patent Security Agreement. Delivery of an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission shall be equally as effective as delivery of an original executed counterpart of this Patent Security Agreement. Any party delivering an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission also shall deliver an original executed counterpart of this Patent Security Agreement but the failure to deliver an original executed counterpart shall not affect the validity, enforceability, and binding effect of this Patent Security Agreement.

7. CONSTRUCTION. This Patent Security Agreement is a Loan Document. Unless the context of this Patent Security Agreement clearly requires otherwise, references to the plural include the singular, references to the singular include the plural, the terms "includes" and "including" are not limiting, and the term "or" has, except where otherwise indicated, the inclusive meaning represented by the phrase "and/or". The words "hereof", "herein", "hereby", "hereunder", and similar terms in this Patent Security Agreement refer to this Patent Security Agreement as a whole and not to any particular provision of this Patent Security Agreement. Section, subsection, clause, schedule, and exhibit references herein are to this Patent Security Agreement unless otherwise specified. Any reference in this Patent Security Agreement to any agreement, instrument, or document shall include all alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements, thereto and thereof, as

applicable (subject to any restrictions on such alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements set forth herein). The words “asset” and “property” shall be construed to have the same meaning and effect and to refer to any and all tangible and intangible assets and properties, including cash, securities, accounts, and contract rights. Any reference herein to the satisfaction, repayment, or payment in full of the Secured Obligations shall mean the repayment in full in cash or immediately available funds (or, (a) in the case of contingent reimbursement obligations with respect to Letters of Credit, providing Letter of Credit Collateralization, and (b) in the case of obligations with respect to Bank Products (other than Hedge Obligations), providing Bank Product Collateralization) of all of the Secured Obligations (including the payment of any termination amount then applicable (or which would or could become applicable as a result of the repayment of the other Secured Obligations) under Hedge Agreements provided by Hedge Providers) other than (i) unasserted contingent indemnification Secured Obligations, (ii) any Bank Product Obligations (other than Hedge Obligations) that, at such time, are allowed by the applicable Bank Product Provider to remain outstanding without being required to be repaid or cash collateralized, and (iii) any Hedge Obligations that, at such time, are allowed by the applicable Hedge Provider to remain outstanding without being required to be repaid. Any reference herein to any Person shall be construed to include such Person’s successors and permitted assigns. Any requirement of a writing contained herein shall be satisfied by the transmission of a Record.

8. THE VALIDITY OF THIS PATENT SECURITY AGREEMENT, THE CONSTRUCTION, INTERPRETATION, AND ENFORCEMENT HEREOF, AND THE RIGHTS OF THE PARTIES HERETO WITH RESPECT TO ALL MATTERS ARISING HEREUNDER OR RELATED HERETO SHALL BE DETERMINED UNDER, GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA.

9. THE PARTIES AGREE THAT ALL ACTIONS OR PROCEEDINGS ARISING IN CONNECTION WITH THIS PATENT SECURITY AGREEMENT SHALL BE TRIED AND LITIGATED ONLY IN THE STATE AND, TO THE EXTENT PERMITTED BY APPLICABLE LAW, FEDERAL COURTS LOCATED IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA; PROVIDED, HOWEVER, THAT ANY SUIT SEEKING ENFORCEMENT AGAINST ANY COLLATERAL OR OTHER PROPERTY MAY BE BROUGHT, AT AGENT’S OPTION, IN THE COURTS OF ANY JURISDICTION WHERE AGENT ELECTS TO BRING SUCH ACTION OR WHERE SUCH COLLATERAL OR OTHER PROPERTY MAY BE FOUND. AGENT AND EACH GRANTOR WAIVE, TO THE EXTENT PERMITTED UNDER APPLICABLE LAW, ANY RIGHT EACH MAY HAVE TO ASSERT THE DOCTRINE OF FORUM NON CONVENIENS OR TO OBJECT TO VENUE TO THE EXTENT ANY PROCEEDING IS BROUGHT IN ACCORDANCE WITH THIS SECTION 9.

10. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AGENT AND EACH GRANTOR HEREBY WAIVE THEIR RESPECTIVE RIGHTS TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION BASED UPON OR ARISING OUT OF THIS AGREEMENT OR ANY OF THE TRANSACTIONS CONTEMPLATED HEREIN, INCLUDING CONTRACT CLAIMS, TORT CLAIMS, BREACH OF DUTY CLAIMS, AND ALL OTHER COMMON LAW OR STATUTORY CLAIMS. AGENT AND EACH GRANTOR REPRESENT THAT EACH HAS REVIEWED THIS WAIVER AND EACH KNOWINGLY AND VOLUNTARILY WAIVES ITS JURY TRIAL RIGHTS FOLLOWING CONSULTATION WITH LEGAL COUNSEL. IN THE EVENT OF LITIGATION, A COPY OF THIS PATENT SECURITY AGREEMENT MAY BE FILED AS A WRITTEN CONSENT TO A TRIAL BY THE COURT.

[SIGNATURE PAGE FOLLOWS]

**IN WITNESS WHEREOF**, the parties hereto have caused this Patent Security Agreement to be executed and delivered as of the day and year first above written.

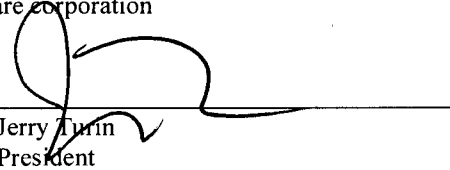
**GRANTORS:**

**OCLARO PHOTONICS, INC.,**  
a Delaware corporation

By: \_\_\_\_\_

Name: Jerry Turin

Title: President

A handwritten signature in black ink, appearing to read "Jerry Turin", is written over a horizontal line. The signature is stylized and cursive.

Patent Security Agreement

**PATENT**  
**REEL: 028324 FRAME: 0987**

**AGENT:**

**WELLS FARGO CAPITAL FINANCE, INC.,**  
a California corporation

By: 

Name: Patrick McCormack

Title: Vice President

Patent Security Agreement

**PATENT**  
**REEL: 028324 FRAME: 0988**

**SCHEDULE I**  
to  
**PATENT SECURITY AGREEMENT**

**Patents**

<b>Grantor</b>	<b>Country</b>	<b>Patent</b>	<b>Application/ Patent No.</b>	<b>Filing Date</b>
Oclaro Photonics Inc.	USA	High brightness diode output methods and devices	12/990215	1/12/11
Oclaro Photonics, Inc.	USA	Apparatus and method of coupling a fiber optic device to a laser	7866897	1/11/11
Oclaro Photonics, Inc.	USA	Multiple emitter coupling devices and methods with beam transform system	7830608	11/9/10
Oclaro Photonics, Inc.	USA	Coupling devices and methods for stacked laser emitter arrays	7680170	3/16/10
Newport Corporation	USA	Laser package and method of assembly	5438580	8/1/95
Newport Corporation	USA	Laser package with reversed laser diode	5550852	8/27/96
Newport Corporation	USA	Reduced mode laser and method of fabrication	5696784	12/9/97
Newport Corporation	USA	Laser diode system	5745519	4/28/98
Newport Corporation	USA	Low divergence laser diode	5801403	9/1/98
Newport Corporation	USA	Ingaasp/algaas/gaas hetero structure diode laser containing indium	5898721	4/27/99



Newport Corporation	USA	Laser diode array with built-in current and voltage surge protection	6028878	2/22/00
Newport Corporation	USA	Quantum well laser with a composition-graded interface at the quantum well	6091752	7/18/00
Newport Corporation	USA	Semiconductor laser diode multi-chip module	6268653	7/31/01
Newport Corporation	USA	Diode laser with screening window and method of fabrication	6351481	2/26/02
Newport Corporation	USA	Increasing laser beam power density	6493148	12/10/02
Newport Corporation	USA	Focusing multiple laser beams	6516011	2/4/03
Newport Corporation	USA	Diode beam transformation	6600605	7/29/03
Newport Corporation	USA	Reliable diode laser stack	6768753	7/27/04
Newport Corporation	USA	Fiber bundle alignment	6799899	9/16/04
Newport Corporation	USA	Cleaving laser diode bars having gratings	6885793	4/26/05
Newport Corporation	USA	Low indium content quantum well structures	6936103	8/30/05
Newport Corporation	USA	Stepped manifold array of microchannel heat sinks	7058101	6/6/06

Newport Corporation	USA	Gainasp/aigainp laser diodes with aigaas type ii carrier blocking layer in the waveguide	6298077	10/2/01
Newport Corporation	USA	Laser diodes with composite material systems which decouple refractive index and band gap profiles	6298078	10/2/01
Newport Corporation	USA	Printed circuit board waveguide	6370291	4/9/02
Newport Corporation	USA	Increasing the yield of precise wavelength lasers	6455341	9/24/02
Oclaro Photonics, Inc.	USA	Laser emitter modules and methods of assembly	12/337275	12/17/08
Oclaro Photonics, Inc.	USA	Package for compact and high power lasers	13/004679	1/11/11

**Patent Licenses**

None reported.