

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sang-Ki Park</td> <td>10/12/2012</td> </tr> <tr> <td>Edmund L Wolak</td> <td>10/12/2012</td> </tr> <tr> <td>John Kelly Johnson</td> <td>10/14/2012</td> </tr> <tr> <td>Serge Cutillas</td> <td>10/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	Sang-Ki Park	10/12/2012	Edmund L Wolak	10/12/2012	John Kelly Johnson	10/14/2012	Serge Cutillas	10/12/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>OCLARO PHOTONICS, INC</td> </tr> <tr> <td>Street Address:</td> <td>2584 Junction Avenue</td> </tr> <tr> <td>City:</td> <td>San Jose</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95134</td> </tr> </table>		Name:	OCLARO PHOTONICS, INC	Street Address:	2584 Junction Avenue	City:	San Jose	State/Country:	CALIFORNIA	Postal Code:	95134
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CORRESPONDENCE DATA											
Fax Number: 6123328352 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 619-920-7247 Email: wanderson@granllp.com Correspondent Name: William B. Anderson, c/o Portfolio IP Address Line 1: P.O. Box 52050 Address Line 4: Minneapolis, MINNESOTA 55402											
ATTORNEY DOCKET NUMBER:	OCL-0303-US/PC										
NAME OF SUBMITTER:	William B. Anderson reg. no. 41585										

OP \$80.00 13522692

Total Attachments: 6

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ASSIGNMENT AND AGREEMENT

WHEREAS, **Sang-Ki PARK** of 8333 S. Egyptian Drive, Tucson, Arizona 85747; **Edmund L. WOLAK** of 6621 N. Donna Beatrix Circle, Tucson Arizona 85718; **John Kelly JOHNSON** of 8145 N. Night Pony Drive, Tucson, Arizona 85743; and **Serge CUTILLAS** of 5402 N. Moccasin Trail, Tucson, Arizona 85750 (hereinafter referred to singly and collectively as "Assignor") have invented a certain invention entitled **HOMOGENIZATION OF FAR FIELD FIBER COUPLED RADIATION** for which United States National Stage Application No. 13/522,692 was filed on July 17, 2012, based on International (PCT) Patent Application No. PCT/US2011/021931 filed on January 20, 2011.; and

WHEREAS, **OCLARO PHOTONICS, INC.**, a corporation duly organized and existing under the laws of the State of Delaware, and having its principal place of business at 2584 Junction Avenue, San Jose, California, US (hereinafter referred to as "Assignee") is desirous of acquiring the entire interest therein;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto Assignee, its successors, assigns and nominees, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof; (b) the above-identified application(s) and all other applications for patent and patents in any and all countries and jurisdictions for the above-identified invention or inventions and all improvements and modifications thereof; (c) all patent applications that claim priority to, or the benefit of, the filing date of the patent applications of (b); (d) all patents that may issue from said applications of (b) and (c) in any country or jurisdiction; (e) all divisions, continuations, reissues, reexaminations and extensions of said applications and patents of (b), (c) and (d); and (f) the right to claim for any of said applications of (b), (c) and (d) the full benefits and rights to priority resulting from filing any of the applications, including, without limitation, rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by Assignee, its successors, assigns and nominees, to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention, or improvement or modification thereof, or resulting therefrom, to Assignee as assignee of the entire interest, or its successors, assigns or nominees.

Assignor hereby agrees (a) to communicate to Assignee, its successors and assigns, or their representatives or agents, all facts and information known or available to Assignor respecting said invention or inventions, improvements, and modifications, including, without limitation, evidence for interference, reexamination, reissue, opposition,

revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; (b) to testify in person or by affidavit as required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by Assignee, all lawful papers pertaining to patents and patent applications described herein, including, but not limited to, papers pertaining to original, divisional, continuation, and reissue applications; renewals, reexaminations, oppositions and interferences; assignments, powers of attorney, oaths, affidavits, and declarations; and depositions, mediations, litigations and disputes; and (d) to provide all reasonable assistance to Assignee, its successors, assigns and nominees, in obtaining and enforcing proper title in and securing, maintaining, enforcing protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

Assignor hereby represents and warrants that (a) Assignor has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein to Assignee; (b) Assignor has no obligation to sell, assign or transfer any right, title or interest herein to an entity other than Assignee; (c) that Assignor has not executed and will not execute any document or instrument in conflict herewith; (d) no consents of any other parties are necessary or appropriate under any agreements regarding the inventions, applications or patents described above for the assignment of Assignor's entire right, title and interest herein to be legally effective; and (e) to the best of Assignor's knowledge, upon consummation of this Agreement, Assignee will have good and marketable title to the inventions, applications and patents described above, free and clear of any and all encumbrances, pledges, security interests, licenses or charges of any nature whatsoever.

Assignor hereby grants to the law firm of **GRANT ANDERSON LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Assignor agrees this Agreement is binding on Assignor's heirs, assigns, representatives and successors, and is to extend to the benefit of the Assignee's successors, assigns and nominees.

Assignor understands and agrees that the attorneys and agents of the law firm of **GRANT ANDERSON LLP** do not personally represent Assignor or Assignor's legal interests, but instead represent the interests of Assignee; since said attorneys and agents cannot provide legal advice to Assignor with respect to this Assignment, Assignor acknowledges its right to seek its own independent legal counsel.

[INTENTIONALLY LEFT BLANK]

Executed this 12th day of October, 2012.

Sang-Ki PARK
Sang-Ki PARK

Arizona
STATE OF ~~CALIFORNIA~~)
Pima) ss:
COUNTY OF ~~SAN DIEGO~~)

On October 12, 2012, before me, Melody Brooks,
Notary Public, personally appeared Sang-Ki PARK, personally known to me, or
proved to me on the basis of satisfactory evidence, to be the person whose name is
subscribed to the within instrument and acknowledged to me that he/she executed the
same in his/her authorized capacity, and that by his/her signature on the instrument the
person, or the entity upon behalf of which the person acted, executed the instrument. I
certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Melody Brooks
Notary Public in and for said County and State

(Seal)

My Commission Expires: October 6, 2015

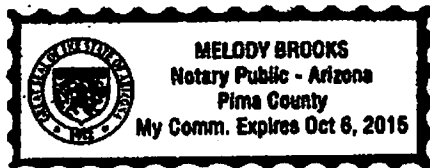
Executed this 12th day of October, 2012.

Edmund L. Wolak
Edmund L. WOLAK

Arizona
STATE OF CALIFORNIA)
Pima) ss:
COUNTY OF SAN DIEGO)

On October 12, 2012, before me, Melody Brooks,
Notary Public, personally appeared Edmund L. WOLAK, personally known to me,
or proved to me on the basis of satisfactory evidence, to be the person whose name is
subscribed to the within instrument and acknowledged to me that he/she executed the
same in his/her authorized capacity, and that by his/her signature on the instrument the
person, or the entity upon behalf of which the person acted, executed the instrument. I
certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Melody Brooks
Notary Public in and for said County and State

(Seal)

My Commission Expires: October 6, 2015

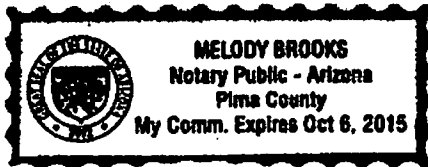
Executed this 14th day of October, 2012.

John Kelly Johnson 10/14/2012
John Kelly JOHNSON

Arizona
STATE OF CALIFORNIA)
Pima) ss:
COUNTY OF SAN DIEGO)

On October 14, 2012, before me, Melody Brooks,
Notary Public, personally appeared John Kelly JOHNSON, personally known to
me, or proved to me on the basis of satisfactory evidence, to be the person whose
name is subscribed to the within instrument and acknowledged to me that he/she
executed the same in his/her authorized capacity, and that by his/her signature on the
instrument the person, or the entity upon behalf of which the person acted, executed the
instrument. I certify under PENALTY OF PERJURY under the laws of the State of
California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Melody Brooks
Notary Public in and for said County and State

(Seal)

My Commission Expires: October 6, 2015

Executed this 12th day of October, 2012.


Serge CUTILLAS

Arizona ^(mb)
STATE OF ~~CALIFORNIA~~)
Pima) ss:
COUNTY OF ~~SAN DIEGO~~) ^(mb)

On October 12, 2012, before me, Melody Brooks,
Notary Public, personally appeared Serge CUTILLAS, personally known to me, or
proved to me on the basis of satisfactory evidence, to be the person whose name is
subscribed to the within instrument and acknowledged to me that he/she executed the
same in his/her authorized capacity, and that by his/her signature on the instrument the
person, or the entity upon behalf of which the person acted, executed the instrument. I
certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.


Notary Public in and for said County and State

(Seal)

My Commission Expires: October 6, 2015

