

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>Massimo MARTINELLI</td> <td>01/30/2012</td> </tr> <tr> <td>Manish SHARMA</td> <td>01/30/2012</td> </tr> <tr> <td>Ruipeng SUN</td> <td>01/30/2012</td> </tr> <tr> <td>Mark H. GARRETT</td> <td>01/30/2012</td> </tr> <tr> <td>Aravanan GURUSAMI</td> <td>01/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Massimo MARTINELLI	01/30/2012	Manish SHARMA	01/30/2012	Ruipeng SUN	01/30/2012	Mark H. GARRETT	01/30/2012	Aravanan GURUSAMI	01/30/2012
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<table border="1"> <tr> <td>Name:</td> <td>Oclaro Technology Limited</td> </tr> <tr> <td>Street Address:</td> <td>Caswell, Towcester</td> </tr> <tr> <td>City:</td> <td>Northamptonshire</td> </tr> <tr> <td>State/Country:</td> <td>UNITED KINGDOM</td> </tr> <tr> <td>Postal Code:</td> <td>NN12 8EQ</td> </tr> </table>		Name:	Oclaro Technology Limited	Street Address:	Caswell, Towcester	City:	Northamptonshire	State/Country:	UNITED KINGDOM	Postal Code:	NN12 8EQ		
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CORRESPONDENCE DATA													
<p>Fax Number: (713)623-4846</p> <p>Phone: 713-623-4844</p> <p>Email: psdocketing@pattersonsheridan.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: PATTERSON & SHERIDAN, LLP</p> <p>Address Line 1: 3040 POST OAK BLVD</p> <p>Address Line 2: SUITE 1500</p> <p>Address Line 4: HOUSTON, TEXAS 77056</p>													
ATTORNEY DOCKET NUMBER:	AVAN 002134US (JAC)												
NAME OF SUBMITTER:	Frederick D. Kim												
<p>Total Attachments: 2</p> <p>source=AVAN_002134US_EASGN#page1.tif</p> <p>source=AVAN_002134US_EASGN#page2.tif</p>													

OP \$40.00 13368254

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Massimo MARTINELLI 608 Bancroft Street Santa Clara, CA 95051	2)	Manish SHARMA 1505 Kennebec Court Morgan Hill, CA 95037
3)	Ruipeng SUN 2241 Goldcrest Circle Pleasanton, CA 94566	4)	Mark H. GARRETT 947 Skip Away Court Morgan Hill, CA 95037
5)	Aravanan GURUSAMI 18329 Christeph Dr. Morgan Hill, CA 95037		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

MULTICAST OPTICAL SWITCH

enclosed herewith or for which application for Letters Patent in the United States was filed on _____, under Serial No. _____; and

WHEREAS, Oclaro Technology Limited, having a principal place of business at Caswell, Towcester Northamptonshire NN12 8EQ, UK (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths,

specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>1/30/2012</u> Date	<u>Massimo Martinelli</u> Massimo MARTINELLI
2)	<u>1/30/2012</u> Date	<u>Manish Sharma</u> Manish SHARMA
3)	<u>1/30/2012</u> Date	<u>Ruipeng Sun</u> Ruipeng SUN
4)	<u>1/30/2012</u> Date	<u>Mark H. Garrett</u> Mark H. GARRETT
5)	<u>01/30/2012</u> Date	<u>Aravanan Gurusami</u> Aravanan GURUSAMI