

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jiandong Huang</td> <td>10/16/2008</td> </tr> <tr> <td>Pooran Joshi</td> <td>10/28/2008</td> </tr> <tr> <td>Hao Zhang</td> <td>10/15/2008</td> </tr> <tr> <td>Apostolos Voutsas</td> <td>10/26/2008</td> </tr> </tbody> </table>		Name	Execution Date	Jiandong Huang	10/16/2008	Pooran Joshi	10/28/2008	Hao Zhang	10/15/2008	Apostolos Voutsas	10/26/2008
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Jiandong Huang	10/16/2008										
Pooran Joshi	10/28/2008										
Hao Zhang	10/15/2008										
Apostolos Voutsas	10/26/2008										
RECEIVING PARTY DATA											
Name:	Sharp Laboratories of America, Inc.										
Street Address:	5750 Pacific Rim Blvd.										
City:	Camas										
State/Country:	WASHINGTON										
Postal Code:	98607										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12259986</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12259986						
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CORRESPONDENCE DATA											
Fax Number:	(858)451-9869										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	858-451-9950										
Email:	GERRY@IPATENTIT.NET										
Correspondent Name:	SHARP LABORATORIES OF AMERICA, INC. C/O										
Address Line 1:	P.O. BOX 270829										
Address Line 4:	SAN DIEGO, CALIFORNIA 92198-2829										
ATTORNEY DOCKET NUMBER:	SLA2342										
NAME OF SUBMITTER:	Gerald Maliszewski										
Total Attachments: 3 source=SLA2342_assign#page1.tif											

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ASSIGNMENT

WHEREAS, the undersigned Jiandong HUANG, a resident of Vancouver, Washington; Pooran Chandra JOSHI, a resident of Vancouver, Washington; Hao ZHANG, a resident of Vancouver, Washington; and Apostolos T. VOUTSAS, a resident of Portland, Oregon, (hereinafter termed "Inventors") have invented certain new and useful improvements in:

"Optical Waveguide Amplifier Using High Quantum Efficiency Silicon Nanocrystal Embedded Silicon Oxide"

and have executed a declaration and oath for an application for a United States patent disclosing and identifying the invention:

Declaration executed on 10/15/08 by Hao ZHANG, 10/16/08 by Jiandong HUANG, 10/24/08 by Apostolos T. VOUTSAS, and on 10/28/08 by Pooran Chandra JOSHI

Having been previously filed and assigned Serial Number ___ and filing date ___; and

WHEREAS Sharp Laboratories of America, Inc., a corporation of the State of Washington, (hereinafter termed "Assignee"), having a place of business at 5750 NW Pacific Rim Boulevard, Camas, Washington 98607, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

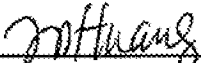

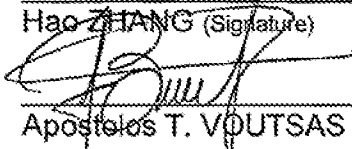
NOW THEREFORE, for good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any and all countries of the world for patents, certificates of inventions or other government grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent

claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing 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 complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting application for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefore and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, said Inventors' heirs, legal representatives and assigns.
4. Said Inventors hereby warrant and represent that said Inventors have not entered and will not enter into any assignment, contract, or understanding in conflict with this Assignment.

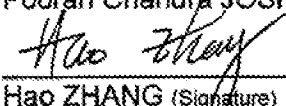
IN WITNESS WHEREOF, the said Inventors have executed this Assignment on the date given below:

(1)	 _____ Jiandong HUANG (Signature)	<u>10/16/2008</u> _____ (Date)
(2)	 _____ Pooran Chandra JOSHI (Signature)	<u>10/28/08</u> _____ (Date)
(3)	_____ Hao ZHANG (Signature)	_____ (Date)
(4)	 _____ Apostolos T. VOITSAS (Signature)	<u>10/24/08</u> _____ (Date)

claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing 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 complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting application for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefore and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
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IN WITNESS WHEREOF, the said Inventors have executed this Assignment on the date given below:

(1)	_____	_____
	Jiandong HUANG (Signature)	(Date)
(2)	_____	_____
	Pooran Chandra JOSHI (Signature)	(Date)
(3)		10/18/2008
	Hao ZHANG (Signature)	(Date)
(4)	_____	_____
	Apostolos T. VOUTSAS (Signature)	(Date)

Power of Attorney by Assignee - SLA2342