

PATENT ASSIGNMENT

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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>Sheng Teng Hsu</td> <td>03/14/2003</td> </tr> <tr> <td>Wei Pan</td> <td>03/17/2003</td> </tr> <tr> <td>Wei-Wei Zhuang</td> <td>03/17/2003</td> </tr> </tbody> </table>		Name	Execution Date	Sheng Teng Hsu	03/14/2003	Wei Pan	03/17/2003	Wei-Wei Zhuang	03/17/2003		
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<table border="1"> <tr> <td>Name:</td> <td>Sharp Laboratories of America, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>5750 NW Pacific Rim Boulevard</td> </tr> <tr> <td>City:</td> <td>Camas</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98607</td> </tr> </table>		Name:	Sharp Laboratories of America, Inc.	Street Address:	5750 NW Pacific Rim Boulevard	City:	Camas	State/Country:	WASHINGTON	Postal Code:	98607
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CORRESPONDENCE DATA											
Fax Number: (360)817-8505 Phone: 360 834-8754 Email: dripma@sharplabs.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: David C. Ripma Address Line 1: 5750 NW Pacific Rim Blvd. Address Line 4: Camas, WASHINGTON 98607											
ATTORNEY DOCKET NUMBER:	SLA0948										
NAME OF SUBMITTER:	David C. Ripma										
Total Attachments: 3 source=Assignment_SLA0948_SLA0634DIV#page1.tif source=Assignment_SLA0948_SLA0634DIV#page2.tif source=Assignment_SLA0948_SLA0634DIV#page3.tif											

CH \$40.00 6972211

ASSIGNMENT

WHEREAS, the undersigned Sheng Teng Hsu, a resident of Camas, WA; Wei Pan, a resident of Vancouver, WA; and Wei-Wei Zhuang, a resident of Vancouver, WA, (hereinafter termed "Inventors") have invented certain new and useful improvements in:

TRENCH ISOLATED CROSS-POINT MEMORY ARRAY AND METHOD OF FABRICATION

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



Declaration executed on March 14, 2003 by Sheng Teng Hsu, which is to be executed by Wei Pan and Wei-Wei Zhuang on March 17, 2003;

or



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, State of Washington, 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) Sheng Teng Hsu
Sheng Teng Hsu (Signature)

03/14/03
(Date)

(2) Wei Pan
Wei Pan (Signature)

3/17/03
(Date)

(3) Wei-Wei Zhuang
Wei-Wei Zhuang (Signature)

3/17/2003
(Date)
