

# PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kiran Gunnam</td> <td>08/11/2009</td> </tr> <tr> <td>Shaohua Yang</td> <td>08/11/2009</td> </tr> <tr> <td>Changyou Xu</td> <td>08/11/2009</td> </tr> </tbody> </table>		Name	Execution Date	Kiran Gunnam	08/11/2009	Shaohua Yang	08/11/2009	Changyou Xu	08/11/2009		
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>LSI Corporation</td> </tr> <tr> <td>Street Address:</td> <td>1621 Barber Lane</td> </tr> <tr> <td>City:</td> <td>Milpitas</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95035</td> </tr> </table>		Name:	LSI Corporation	Street Address:	1621 Barber Lane	City:	Milpitas	State/Country:	CALIFORNIA	Postal Code:	95035
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (215)557-8477</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 215-557-6656</p> <p>Email: mary@mendelip.com</p> <p>Correspondent Name: MENDELSON, DRUCKER, &amp; ASSOCIATES, P.C.</p> <p>Address Line 1: 1500 JOHN F. KENNEDY BLVD., SUITE 405</p> <p>Address Line 4: PHILADELPHIA, PENNSYLVANIA 19102</p>											
ATTORNEY DOCKET NUMBER:	08-0245US2										
NAME OF SUBMITTER:	Craig M. Brown										
<p>Total Attachments: 5</p> <p>source=08_0245US2_Assignment_Agreement#page1.tif</p> <p>source=08_0245US2_Assignment_Agreement#page2.tif</p>											

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**PATENT**  
**REEL: 023091 FRAME: 0980**

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source=08\_0245US2\_Assignment\_Agreement#page5.tif

**ASSIGNMENT AGREEMENT**

I, **Kiran Gunnam, Shaohua Yang, and Changyou Xu**, hereby declare that I am the sole inventor (if only one inventor is named) or a joint inventor (if plural inventors are named) of the inventions related to:

**ADJUSTING INPUT SAMPLES IN TURBO  
EQUALIZATION SCHEMES TO BREAK TRAPPING SETS**

as described in an application for Letters Patent of the United States of America filed on \_\_\_\_\_ and assigned Serial No. \_\_\_\_ / \_\_\_\_\_, or if not identified here by filing date and Serial number, executed by me on even date with my execution of this Assignment Agreement.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby sell, assign and transfer to **LSI Corporation**, a corporation of the State of Delaware, having an office at 1621 Barber Lane, Milpitas, CA 95035, United States of America, and its successors, assigns and legal representatives (collectively "Assignee"), my entire right, title and interest, for the United States and all foreign countries, in and to the inventions and all the rights and privileges under any and all Letters Patent that may be granted therefore, including any divisionals, continuations, reissues and extensions thereof.

I agree that when requested I will, without charge to Assignee but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for the inventions in any and all countries and for vesting title thereto in Assignee.

I agree that I will communicate to Assignee or its representatives any facts known to me respecting the inventions, and when requested by Assignee I will testify in any legal proceedings relating to the inventions at Assignee's expense, and generally do everything possible to aid Assignee to obtain or enforce proper protection for the inventions in any and all countries.

I authorize and empower Assignee to make applications for patent or other form of protection for the inventions in Assignee's own name, or in my name, in any and all countries, and to invoke and claim for any application for patent or other form of protection for the inventions filed by Assignee the benefit of all rights of priority provided by any and all treaties, conventions or agreements without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or similar document which may be required in any country for any purpose, including proof of the right of Assignee to apply for patent or other form of protection for the inventions, and to claim the aforesaid benefit of the right of priority.

I covenant with Assignee that, to the best of my knowledge, the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have the full right to convey the same as herein expressed.

I authorize attorneys for Assignee to insert the filing date and serial number into this assignment after the application for Letters Patent has been filed and a serial number has been assigned to such application.

This assignment supersedes all other assignments, agreements and addendums related to the inventions referenced herein.

992.1635L

FIRST INVENTOR  
G. Kiran Kumar  
KIRAN GUNNAM  
Date: 08/11/09

File No.: 08-0245US2  
IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.

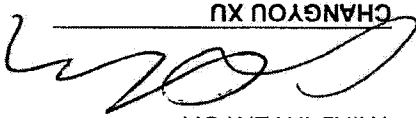
992.1635L

Date: 08/11/2009  
SHAOHUA YANG

SECOND INVENTOR

File No.: 08-0245US2

992.1635L

THIRD INVENTOR  
  
CHANGYOU XU  
Date: 8/11/2009

File No.: 08-0245US2

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Santa Clara

On August 11, 2009 before me, Connie C. del Castillo, Notary Public,  
Date Here Insert Name and Title of the Officer  
 personally appeared Kiran Gunnam, Shaohua Yang, and Changyou Xu,  
Name of Signer

who 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~~ <sup>she</sup> executed the same in his ~~or~~ <sup>her</sup> authorized capacity, and that by his ~~or~~ <sup>her</sup> ~~signature~~ <sup>signature</sup> 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.

Signature

Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**Title or Type of Document: Assignment of Patent Application (Docket No. 08-0245US2)Document Date: August 11, 2009 Number of Pages: 1Signer Other Than Named Above: N/A**Capacity Claimed by Signer**Signer's Name: Kiran Gunnam, Shaohua Yang, Changyou Xu.☒ Individual☐ Corporate Officer - Title: \_\_\_\_\_☐ Partner - ☐ Limited ☐ General☐ Attorney in Fact☐ Trustee☐ Guardian or Conservator☐ Other: \_\_\_\_\_Signer is Representing: Self

992.1635L

**PATENT**