

# 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>George Mathew</td> <td>01/04/2010</td> </tr> <tr> <td>Shaohua Yang</td> <td>01/04/2010</td> </tr> <tr> <td>Yuan Xing Lee</td> <td>01/04/2010</td> </tr> <tr> <td>Hongwei Song</td> <td>01/05/2010</td> </tr> </tbody> </table>		Name	Execution Date	George Mathew	01/04/2010	Shaohua Yang	01/04/2010	Yuan Xing Lee	01/04/2010	Hongwei Song	01/05/2010
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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: (303)265-9600</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 720-266-4728</p> <p>Email: dhamilton@hdciplaw.com</p> <p>Correspondent Name: Hamilton, DeSanctis &amp; Cha (LSI)</p> <p>Address Line 1: 8601 W. CROSS DRIVE</p> <p>Address Line 2: F5-301</p> <p>Address Line 4: LITTLETON, COLORADO 80123</p>											
ATTORNEY DOCKET NUMBER:	AGERE-0160000										
NAME OF SUBMITTER:	Douglas M. Hamilton										
Total Attachments: 5											

OP \$40.00 12652201

**501056871**

**PATENT**  
**REEL: 023733 FRAME: 0940**

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ASSIGNMENT AGREEMENT

I, **George Mathew** of San Jose, California; **Shaohua Yang** of Santa Clara, California; **Yuan Xing Lee** of San Jose, California; and **Hongwei Song** of Longmont, Colorado hereby declare that I am a joint inventor of the inventions related to:

**Systems and Methods for Determining Noise Components in a Signal Set**

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.

IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.

INVENTOR

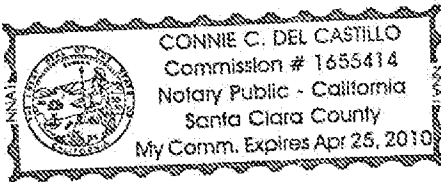
*George Mathew* 04 Jan 2010  
George Mathew

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Santa Clara

On January 4, 2010 before me, Connie C. del Castillo, Notary Public  
Date Here Insert Name and Title of the Officer  
personally appeared George Mathew,  
Name of Signer



Place Notary Seal Above

who proved to me on the basis of satisfactory evidence to be the person whose name is/are 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.

Signature Connie C. del Castillo  
Signature of Notary Public

INVENTOR

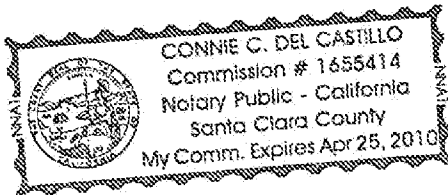
  
Shaohua Yang

01/04/2010

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California  
County of Santa Clara

On January 4, 2010 before me, Connie C. del Castillo, Notary Public  
Date Here Insert Name and Title of the Officer  
personally appeared Shaohua Yang  
Name of Signer



Place Notary Seal Above

who proved to me on the basis of satisfactory evidence to be the person whose name is/are 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.

Signature Connie C. del Castillo  
Signature of Notary Public

INVENTOR



Yuan Xing Lee

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

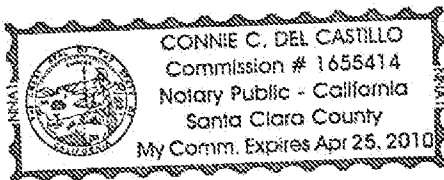
County of Santa Clara

On January 4, 2010 before me, Connie C. del Castillo, Notary Public

personally appeared Yuan Xing Lee

Here Insert Name and Title of the Officer

Name of Signer



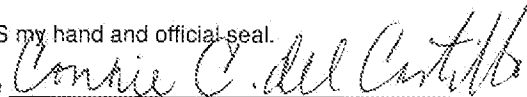
Place Notary Seal Above

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I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

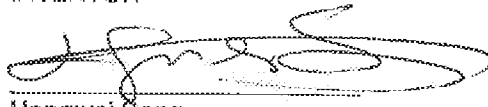
WITNESS my hand and official seal.

Signature



Signature of Notary Public

INVENTOR



Hongwei Song

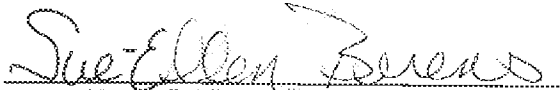
Date: 1/5/2010

United States of America )

State of COLORADO ) ss.:

County of Boulder )

On this 5 day of JANUARY, 20 10, before me personally came Hongwei Song, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

SUE-ELLEN BERENS  
Notary Public  
State of Colorado

EXP 10/17/2010