

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Pervez M. Aziz	08/08/2009
Adam B. Healey	08/17/2009
Amaresh Malipatil	08/13/2009
Lizhi Zhong	08/13/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LSI Corporation
<b>Street Address:</b>	1621 Barber Lane
<b>City:</b>	Milpitas
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95035
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12495547
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(203)255-6570
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	2032556560
<b>Email:</b>	tm@rml-law.com
<b>Correspondent Name:</b>	Kevin M. Mason
<b>Address Line 1:</b>	Ryan, Mason & Lewis, LLP
<b>Address Line 2:</b>	1300 Post Road - Suite 205
<b>Address Line 4:</b>	Fairfield, CONNECTICUT 06824
<b>ATTORNEY DOCKET NUMBER:</b>	L09-0494US1 (1150-1755)
<b>NAME OF SUBMITTER:</b>	Kevin M. Mason

OP \$40.00 12495547

**Total Attachments: 18**

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File No.: L09-0494US1

## ASSIGNMENT AGREEMENT

I, **Pervez M. Aziz; Adam B. Healey; Amaresh Malipatil; and Lizhi Zhong**, 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:

**METHODS AND APPARATUS FOR DECISION-FEEDBACK EQUALIZATION  
WITH OVERSAMPLED PHASE DETECTOR**

as described in an application for Letters Patent of the United States of America filed on **June 30, 2009** and assigned Serial No. **12/495,547**, 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.

File No.: L09-0494US1

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

FIRST INVENTOR

Pervaz M. Aziz  
Pervaz M. Aziz

Date: 8/8/09.

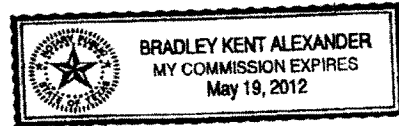
United States of America )

State of Texas ) ss.:

County of Dallas )

On this 8th day of August, 2009, before me personally came **Pervaz M. Aziz**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Bradley Kent Alexander  
Notary Public



File No.: **L09-0494US1**

SECOND INVENTOR

\_\_\_\_\_  
**Adam B. Healey**

Date: \_\_\_\_\_

United States of America )

State of ) ss.:

County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally came **Adam B. Healey**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

File No.: **L09-0494US1**

THIRD INVENTOR

\_\_\_\_\_  
**Amaresh Malipatil**

Date: \_\_\_\_\_

See attached California All-Purpose Acknowledgment.

File No.: **L09-0494US1**

FOURTH INVENTOR

\_\_\_\_\_  
**Lizhi Zhong**

Date: \_\_\_\_\_

See attached California All-Purpose Acknowledgment.

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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.

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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.

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FIRST INVENTOR

\_\_\_\_\_  
**Pervez M. Aziz**

Date: \_\_\_\_\_

United States of America )

State of ) ss.:

County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally came **Pervez M. Aziz**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

File No.: L09-0494US1

SECOND INVENTOR

*Adam B. Healey*  
Adam B. Healey

Date: 8/17/2009

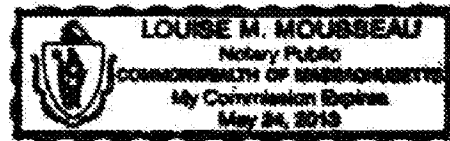
United States of America )

State of *Massachusetts* ) ss.:

County of *Essex* )

On this 17<sup>th</sup> day of August, 2009, before me personally came Adam B. Healey, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*Louise M. Mousseau*  
Notary Public



File No.: **L09-0494US1**

THIRD INVENTOR

\_\_\_\_\_  
**Amaresh Malipatil**

Date: \_\_\_\_\_

See attached California All-Purpose Acknowledgment.

File No.: L09-0494US1

FOURTH INVENTOR

\_\_\_\_\_  
Lizhi Zhong

Date: \_\_\_\_\_

See attached California All-Purpose Acknowledgment.

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

FIRST INVENTOR

\_\_\_\_\_  
**Pervez M. Aziz**

Date: \_\_\_\_\_

United States of America )

State of ) ss.:

County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally came **Pervez M. Aziz**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

SECOND INVENTOR

\_\_\_\_\_  
**Adam B. Healey**

Date: \_\_\_\_\_

United States of America )

State of ) ss.:

County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally came **Adam B. Healey**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

File No.: L09-0494US1

THIRD INVENTOR

*Amaresh*

\_\_\_\_\_  
Amaresh Malipatil

Date: 08/13/09

See attached California All-Purpose Acknowledgment.



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California  
County of Santa Clara

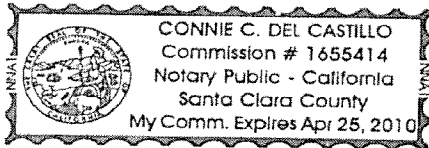
On August 13, 2009 before me, Connie C. del Castillo, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Amaresh Malipatil  
Name of Signer

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



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. L09-0494US1)

Document Date: August 13, 2009 Number of Pages: 5

Signer Other Than Named Above: N/A

**Capacity Claimed by Signer**

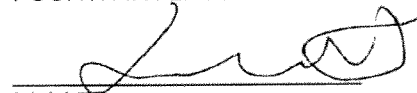
Signer's Name: Amaresh Malipatil

- Individual  Corporate Officer - Title: \_\_\_\_\_
- Partner -  Limited  General  Attorney in Fact
- Trustee  Guardian or Conservator
- Other: \_\_\_\_\_

Signer is Representing: Self

File No.: L09-0494US1

FOURTH INVENTOR

  
Lizhi Zhong

Date: 8/12/09 2.2.  
13

See attached California All-Purpose Acknowledgment.

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California  
County of Santa Clara

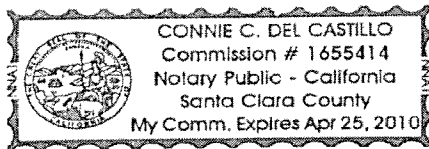
On August 13, 2009 before me, Connie C del Castillo, Notary Public  
Date Here Insert Name and Title of the Officer  
personally appeared Lizhi Zhong,  
Name of Signer

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



Place Notary Seal Above

**OPTIONAL**

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**Description of Attached Document**

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Document Date: August 13, 2009 Number of Pages: 5

Signer Other Than Named Above: N/A

**Capacity Claimed by Signer**

Signer's Name: Lizhi Zhong

- Individual  Corporate Officer - Title: \_\_\_\_\_
- Partner -  Limited  General  Attorney in Fact
- Trustee  Guardian or Conservator
- Other: \_\_\_\_\_

Signer is Representing: Self