

PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

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>Nils Graef</td><td>05/18/2011</td></tr><tr><td>Erich F. Haratsch</td><td>12/08/2010</td></tr><tr><td>Milos Ivkovic</td><td>05/27/2011</td></tr><tr><td>Victor Krachkovsky</td><td>12/08/2010</td></tr><tr><td>Andrei Vityaev</td><td>12/20/2010</td></tr><tr><td>Johnson Yen</td><td>01/04/2011</td></tr></tbody></table>		Name	Execution Date	Nils Graef	05/18/2011	Erich F. Haratsch	12/08/2010	Milos Ivkovic	05/27/2011	Victor Krachkovsky	12/08/2010	Andrei Vityaev	12/20/2010	Johnson Yen	01/04/2011
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RECEIVING PARTY DATA															
<table border="1"><tr><td>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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PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13001310</td></tr></tbody></table>		Property Type	Number	Application Number:	13001310										
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CORRESPONDENCE DATA															
Fax Number: (203)255-6570 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone: 2032556560															
Email: tm@mml-law.com															
Correspondent Name: Kevin M. Mason															
Address Line 1: Ryan, Mason & Lewis, LLP															
Address Line 2: 1300 Post Road - Suite 205															
Address Line 4: Fairfield, CONNECTICUT 06824															
ATTORNEY DOCKET NUMBER:	L08-0882US1 (1150-1789)														

501572256

PATENT  
REEL: 026475 FRAME: 0393

OP \$40.00 13001310

NAME OF SUBMITTER:

Kevin M. Mason

**Total Attachments: 23**

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## ASSIGNMENT AGREEMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, **Nils Graef, Erich F. Haratsch, Milos Ivkovic, Victor Krachkovsky, Andrei Vityaev, and Johnson Yen**, 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"), the entire right, title and interest, for the United States and all foreign countries, in and to any and all inventions and improvements ("Inventions") as described and/or claimed in an application for Letters Patent of the United States of America entitled **METHODS AND APPARATUS FOR INTERCELL INTERFERENCE MITIGATION USING MODULATION CODING** and assigned attorney docket number **L08-0882US1**, and in and to the application and all divisional, continuing, substitute, renewal, reissue, reexamination and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries for the Inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefore including any reissues, reexaminations and extensions thereof.

I/We agree that when requested 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/We authorize and empower Assignee to make applications for patent or other form of protection for the Inventions in Assignee's own 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.

I/We hereby consent that a copy of this Assignment Agreement 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.

IN WITNESS WHEREOF, I/we have hereunto signed my/our name(s) on the day and year set forth below.

INVENTOR

  
Nils GraefDate 5/18/2011

WITNESSES:

  
Name:  
Name:

Rev2: 11/16/2009

## ASSIGNMENT AGREEMENT

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IN WITNESS WHEREOF, I/we have hereunto signed my/our name(s) on the day and year set forth below.

INVENTOR

Nils Graef

Date

INVENTOR

Erich F. Haratsch

Date

INVENTOR

Milos Ivkovic

Date

INVENTOR

Victor Krachkovsky

Date

INVENTOR

Andrei Vityaev

Date

INVENTOR

Johnson Yen

Date

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Nils Graef  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Place Notary Seal Above

Signature: \_\_\_\_\_  
Signature of Notary Public

ACKNOWLEDGMENT

State of Pennsylvania

County of Lehigh

On this 8th day of December, 2010, before me personally appeared

Erich F. Haratsch

known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

In witness hereof, I hereunto set my hand and official seal.

Rachel A. Panczyzn (Seal)  
Notary Public

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Rachel A. Panczyzn, Notary Public  
Hanover Twp., Lehigh County  
My Commission Expires July 14, 2013  
Member, Pennsylvania Association of Notaries

ACKNOWLEDGMENT

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2010, before me personally appeared

**Milos Ivkovic**

known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

In witness hereof, I hereunto set my hand and official seal.

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

(Seal)

ACKNOWLEDGMENT

State of Pennsylvania

County of Lehigh

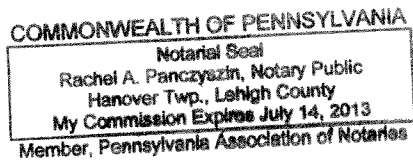
On this 8<sup>th</sup> day of December, 2010, before me personally appeared

Victor Krachkovsky

known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

In witness hereof, I hereunto set my hand and official seal.

Rachel A. Panczyszyn (Seal)  
Notary Public





CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Andrei Vityaev  
Name(s) of Signer(s)

\_\_\_\_\_

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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Signature: \_\_\_\_\_  
Signature of Notary Public

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Johnson Yen  
Name(s) of Signer(s)

\_\_\_\_\_

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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Signature of Notary Public

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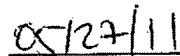
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IN WITNESS WHEREOF, I/we have hereunto signed my/our name(s) on the day and year set forth below.

INVENTOR



Milos Ivkovic



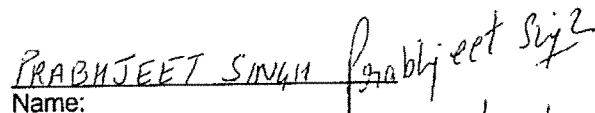
Date

WITNESSES:



Name:

5/27/2011



Name:

5/27/2011

Rev2: 11/16/2009

US Application

## ASSIGNMENT AGREEMENT

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INVENTOR

Nils GraefDate

INVENTOR

Erich F. HaratschDate

INVENTOR

Milos IvkovicDate

INVENTOR

Victor KrachkovskyDate

INVENTOR

Andrei Vityaev  
12-20-2010Date

INVENTOR

Johnson YenDate

Rev2: 11/16/2009

**PATENT**  
**REEL: 026475 FRAME: 0404**

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Nils Graef  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Place Notary Seal Above

Signature: \_\_\_\_\_  
Signature of Notary Public

ACKNOWLEDGMENT

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2010, before me personally appeared

**Erich F. Haratsch**

known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

In witness hereof, I hereunto set my hand and official seal.

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

(Seal)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Milos Ivkovic  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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Signature of Notary Public

ACKNOWLEDGMENT

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2010, before me personally appeared

**Victor Krachkovsky**

known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

In witness hereof, I hereunto set my hand and official seal.

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

(Seal)



## CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California,

County of Santa ClaraOn 12/20/10  
Date

before me,

Nancy Jang, Notary Public  
Here Insert Name and Title of the Officer

personally appeared

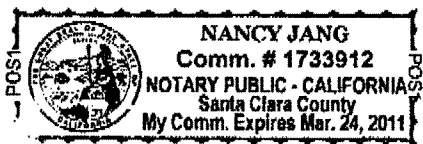
Andrei Vitvayev

Name(s) of Signer(s)

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Signature:

Signature of Notary Public

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Johnson Yen  
Name(s) of Signer(s)

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INVENTOR

INVENTOR

INVENTOR

Nils Graef

Erich F. Haratsch

Milos Ivkovic

Date

Date

Date

INVENTOR

INVENTOR

INVENTOR

Victor Krachkovsky

Andrei Vityaev

Johnson Yen

Date

Date

Date

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Nils Graef  
Name(s) of Signer(s)

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Signature: \_\_\_\_\_  
Signature of Notary Public

ACKNOWLEDGMENT

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2010, before me personally appeared

**Erich F. Haratsch**

known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

In witness hereof, I hereunto set my hand and official seal.

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

(Seal)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

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On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Milos Ivkovic  
Name(s) of Signer(s)

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State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2010, before me personally appeared

**Victor Krachkovsky**

known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

In witness hereof, I hereunto set my hand and official seal.

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

(Seal)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
Date Here Insert Name and Title of the Officer

personally appeared Andrei Vityaev  
Name(s) of Signer(s)

\_\_\_\_\_

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Place Notary Seal Above

Signature: \_\_\_\_\_  
Signature of Notary Public



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara

On January 4, 2011

Date

before me, Connie C. del Castillo, Notary Public,

Here Insert Name and Title of the Officer

personally appeared

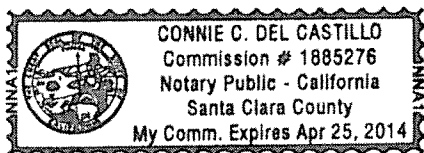
Johnson Yen

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.



Place Notary Seal Above

Signature: Connie C. del Castillo

Signature of Notary Public