PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3000828

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PARAKALAN VENKATARAGHAVAN	06/27/2014
SANAL CHERUVATHERY	06/27/2014
MENG-LIN M. YU	06/26/2014
JOSEPH WILLIAMS	06/30/2014

RECEIVING PARTY DATA

Name:	LSI CORPORATION
Street Address:	1320 RIDDER PARK DRIVE
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95131

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14318938

CORRESPONDENCE DATA

Fax Number: (203)255-6570

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2032556560 Email: tm@rml-law.com **Correspondent Name:** KEVIN M. MASON

Address Line 1: RYAN, MASON & LEWIS, LLP

Address Line 2: 1175 POST ROAD EAST - SECOND FLOOR

Address Line 4: WESTPORT, CONNECTICUT 06880

ATTORNEY DOCKET NUMBER:	L14-0061US1
NAME OF SUBMITTER:	KEVIN M. MASON
SIGNATURE:	/Kevin M. Mason/
DATE SIGNED:	08/28/2014

Total Attachments: 5

source=1150-2102 Assignment 8-28-14#page1.tif source=1150-2102_Assignment_8-28-14#page2.tif

> **PATENT** REEL: 033628 FRAME: 0562 502954230

source=1150-2102_Assignment_8-28-14#page3.tif source=1150-2102_Assignment_8-28-14#page4.tif source=1150-2102_Assignment_8-28-14#page5.tif

> PATENT REEL: 033628 FRAME: 0563

Kevin M. Mason

Reg. No. 36,597

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.			
 Name of conveying party(ies): Parakalan Venkataraghavan, Sanal Cheruvathery, Meng-Lin M. Yu, and Joseph Williams Additional name(s) of conveying party(ies) attached? 	Name and address of receiving party(ies) Name: LSI Corporation Internal Address:		
Yes X No 3. Nature of conveyance: X Assignment _ Merger _ Security Agreement _ Change of Name _ Other Execution Date: June 27, 2014 June 27, 2014 June 26, 2014 June 30, 2014	Street Address: 1320 Ridder Park Drive City: San Jose State: CA ZIP: 95131 Additional name(s) & address(es) attached? _ Yes x No		
 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 14/318,938, Filed June 30, 2014 B. Patent No.(s) 			
Additional numbers a	attached? _ Yes X No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kevin M. Mason Internal Address: Ryan, Mason & Lewis, LLP	 6. Total number of applications and patents involved: 1 7. Total Fee (37 CFR 3.41) \$ 40.00 X Enclosed Authorized to be charged to credit card 		
Street Address: 1175 Post Road East, Second Floor	8. Deposit account number 50-1735		
City: Westport State: CT ZIP: 06880	-		
DO NOT USE THIS SPACE			
9. Statement and signature. To the best of my knowledge and belief, the foregoin is a true copy of the original document.	ng information is true and correct and any attached copy		

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

Washington, DC 20231

Total number of pages including cover sheet, attachments, and document: <u>5</u>

/Kevin M. Mason/

Signature

PATENT REEL: 033628 FRAME: 0564

August 28, 2014

Date

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, Parakalan Venkataraghavan, Sanal Cheruvathery, Meng-Lin M. Yu, and Joseph Williams, hereby sell, assign and transfer to LSI Corporation, a corporation of the State of Delaware, having an office at 1320 Ridder Park Drive, San Jose, CA 95131, 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 CONFIGURABLE GENERIC FILTER HARDWARE BLOCK AND METHODS and assigned attorney docket number L14-0061US1, 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 P. Venkataraghavan	INVENTOR	INVENTOR
Parakalan Venkataraghavan	Sanal Cheruvathery	Meng-Lin M. Yu
JUNE 27,2014		
Date	Date	Date
INVENTOR		
Joseph Williams		
Date		

Rev1: 02/08/2013

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, Parakalan Venkataraghavan, Sanal Cheruvathery, Meng-Lin M. Yu, and Joseph Williams, hereby sell, assign and transfer to LSI Corporation, a corporation of the State of Delaware, having an office at 1320 Ridder Park Drive, San Jose, CA 95131, 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 CONFIGURABLE GENERIC FILTER HARDWARE BLOCK AND METHODS and assigned attorney docket number L14-0061US1, 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	INVENTOR	INVENTOR	
Parakalan Venkataraghavan	Sanal Cheruyathery	Meng-Lin M. Yu	
Date	27 June 2014 Date	Date	
INVENTOR			
Joseph Williams	1		
Date		•	

Rev1: 02/08/2013

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, Parakalan Venkataraghavan, Sanal Cheruvathery, Meng-Lin M. Yu, and Joseph Williams, hereby sell, assign and transfer to LSI Corporation, a corporation of the State of Delaware, having an office at 1320 Ridder Park Drive, San Jose, CA 95131, 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 CONFIGURABLE GENERIC FILTER HARDWARE BLOCK AND METHODS and assigned attorney docket number L14-0061US1, 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	INVENTOR	INVENTOR
Parakalan Venkataraghavan	Sanal Cheruvathery	Meng-Lin M. Yu
Date	Date	<i>6/26/2014</i> Date
INVENTOR		
Joseph Williams		
Date		

PATENT REEL: 033628 FRAME: 0567

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, Parakalan Venkataraghavan, Sanal Cheruvathery, Meng-Lin M. Yu, and Joseph Williams, hereby sell, assign and transfer to LSI Corporation, a corporation of the State of Delaware, having an office at 1320 Ridder Park Drive, San Jose, CA 95131, 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 CONFIGURABLE GENERIC FILTER HARDWARE BLOCK AND METHODS and assigned attorney docket number L14-0061US1, 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	INVENTOR	INVENTOR	
Parakalan Venkataraghavan	Sanal Cheruvathery	Meng-Lin M. Yu	
Date	Date	Date	
INVENTOR Das M W M M M M M M M M M M M M M M M M M			
Date			

Rev1: 02/08/2013