RECORDATION FORM COVER SI Form PTO-1595 "Express Mail" No. EV 239596598 L



U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket No. 01-732 81517

102442738

To the Commissioner for Patents: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Juergen Lahner Kiran Atmakuri Kavitha Chaturvedula Balamurugan Balasubramanian Kirshna Devineni 4-30-07 Srinivas Adusumalli Randall P. Fry Gregory A. Pierce Additional name(s) of conveying party(ies) attached? [] Yes [x] No 3. Nature of conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other ____

2. Name and address of receiving party(ies):

LSI Logic Corporation 1551 McCarthy Boulevard Milpitas, CA 95035



4. Application n	number(s) or	patent	number(s)
------------------	--------------	--------	-----------

Execution Date of each conveying party: April 25, 2003; April 28, 2003; April 25, 2003

If this document is being filed together with a new application, the execution date of the application for each conveying party is: April 25, 2003; April 28, 2003; April 25, 2003

Additional numbers attached? [] Yes [x] No 5. Name and address of party to whom correspondence concerning document should be mailed:

B. Patent No.(s)

6. Total number of applications and patents involved: 1

LSI LOGIC CORPORATION 1551 McCarthy Blvd. Milpitas, CA 95035 (408) 433-8708

7. Total fee (37 CFR 3.41): \$40.00

[] Enclosed

[x] Authorized to be charged to deposit account should the fee not be enclosed.

8. Deposit account number: 12-2252

05/07/2003 TDIAZ1

10427609 00000097 122252

DO NOT USE THIS SPACE

01 FC:0021

40.00 CH

A. Patent Application No.(s)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Whitesell

Registration No. 38,657

April 30, 2003

Date

10. Total number of pages including cover sheet, attachments and document: 7

PATENT REEL: 014031 FRAME: 0657 Docket No.: 01-732 81517

804 E. Dana Street

Mountain View, CA 94041

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/WE, the undersigned, Juergen Lahner, Kiran Atmakuri, Kavitha Chaturvedula, Balamurugan Balasubramanian, Krishna Devineni, Srinivas Adusumalli, Randall P. Fry and Gregory A, Pierce do hereby sell, assign, and transfer to: LSI LOGIC CORPORATION, a corporation of Delaware, having a place of business at 1551 McCarthy Boulevard, Milpitas, California 95035, ("Assignee"), its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and improvements which are disclosed in the application for United States Letters Patent, (x) which has been executed by the undersigned concurrently herewith, () which was filed on ______, 20__ and assigned Serial Number and is entitled: <u>AUTOMATED ANALYSIS OF RTL CODE CONTAINING ASIC VENDOR RULES</u> and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications to patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned. Name: Witness: Juera 1063 Hakedale Way Witness: Sunnyvale, CA 94089 Printed Name: Witness: Kiran Atma 658 Begonia Way #4 Witness Sunnyvale, CA 94086 Printed Witness Kavitha Chaturvedula 1507 New Bedford Court Witness: San Jose, CA 95131 Printed Date: A/25/03 Name Witness: Balamurugan Balasubramanian

Witness

Printed

REEL: 014031 FRAME: 0658

Page 2

Name: Krishna Devineni 64 Washington Square Dr. Milpitas, CA 95035	Date: 04/25/03	Witness: Ludger Johanterwage Printed
Name: Srinivas Adusumalli 952 Desmet Lane San Jose, CA 95125	Date: 04/25/03	Witness: Ludge Jooh anterways
Name: Randall P. Fry 1805 Snow Wind Drive Raleigh, NC 27615	Date:	Witness:
Name: Gregory A. Pierce 372 Erickson Road Ashby, MA 01431	Date:	Witness: Printed

ASSIGNMENT

Juergen Lahner, Kiran Atmak Adusumalli, Randall P. Fry and Gregory A CORPORATION, a corporation of Delaw ("Assignee"), its successors, assigns, and le	uri, Kavitha Chaturvedula, Pierce vare, having a place of busin egal representatives, the ent	which is hereby acknowledged, I/WE, the undersigned, Balamurugan Balasubramanian, Krishna Devineni, Srinivas do hereby sell, assign, and transfer to: LSI LOGIC ess at 1551 McCarthy Boulevard, Milpitas, California 95035, ire right, title and interest for the United States and all foreign e disclosed in the application for United States Letters Patent,
(x) which has been executed by () which was filed on	the undersigned concurrent , 20 and assigned	tly herewith, d Serial Number
application and all divisional, continuing, s or shall be filed in the United States and al.	ubstitute, renewal, reissue, I foreign countries on any c in the United States and a	NTAINING ASIC VENDOR RULES and in and to said and all other applications for Letters Patent which have been of said improvements; and in and to all original and reissued il foreign countries on said improvements; and in and to all ation; and
without charge to, but at the expense of, sa the intent and purpose of this Assignment, t all other patent applications on any and all s papers; communicate to said Assignee, its said improvements and the history thereof; representatives shall consider desirable for for vesting title to said improvements and successors, assigns and legal representative Covenant with said Assignee, its successors	id Assignee, its successors, the undersigned will execute aid improvements; execute successors, assigns, and regand generally do everythicalding in securing and mair all applications to patents as; and	aid improvements in its own name; and that, when requested, assigns and legal representatives, to carry out in good faith e all divisional, continuing, substitute, renewal, reissue, and all rightful oaths, assignments, powers of attorney and other presentatives, all facts known to the undersigned relating to mg possible which said Assignee, its successors, assigns or nataining proper patent protection for said improvements and and all patents on said improvements, in said Assignee, its statives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey
Name:	Date:	11/2
Juergen Lahner 1063 Lakedale Way Sunnyvale, CA 94089	Date:	Witness: Witness: Printed
Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyvale, CA 94086	Date:	Witness: Witness: Printed
Name: Kavitha Chaturvedula 1507 New Bedford Court San Jose, CA 95131	Date:	Witness: Witness: Printed
Name: Balamurugan Balasubramanian 804 E. Dana Street Mountain View, CA 94041	Date:	Witness: Witness: Printed

Docket No.: 01-732 81517

Page 2

Patent

Name: Krishna Devineni 64 Washington Square Dr. Milpitas, CA 95035	Date:	Witness: Printed
Name: Srinivas Adusumalli 952 Deamet Lane San Jose, CA 95125	Date:	Witness: Printed
Name: Randall P. Fry 1805 Snow Wind Drive Raleigh, NC 27615	Date: 04/28/03	Witness: Elizabeth P. Fry Printed
Name: Gregory A. Pierce 372 Erickson Road Ashby, MA 01431	Ďato:	Witness: Witness: Printed

Docket No.: 01-732 81517

Patent

ASSIGNMENT

	scerbt aria sarrierench or wi	hich is hereby acknowledged, I/WE, the undersigned,
Inergen Lahner Kiran Atmaku	ri. Kavitha Chaturvedula, I	Balamurugan Balasubramanian, Krishna Devineni, Srinivas
Adusumalli, Randall P. Fry and Gregory A.	Pierce	do hereby sell, assign, and transfer to: LSI LOGIC ss at 1551 McCarthy Boulevard, Milpitas, California 95035,
CORPORATION, a corporation of Delawa	are, having a place of busine	ss at 1551 McCarthy Boulevard, Milpitas, California 95035,
("Assignee"), its successors, assigns, and leg	gal representatives, the entir	re right, title and interest for the United States and all foreign
countries, in and to any and all inventions an	d improvements which are	disclosed in the application for United States Letters Patent,
(x) which has been executed by the	he undersioned consurrent	w herewith
(x) which was filed on	ne undersigned concurrend	Serial Number
() Which was mod on	, 20 and 20018.1011	
and is entitled: AUTOMATED ANALY	SIS OF RTL CODE CON	TAINING ASIC VENDOR RULES and in and to said
application and all divisional, continuing, su	ibstitute, renewal, reissue, a	and all other applications for Letters Patent which have been
or shall be filed in the United States and all	foreign countries on any of	f said improvements; and in and to all original and reissued
patents which have been or shall be issued	in the United States and al	I foreign countries on said improvements; and in and to all
rights of priority resulting from the filing of		
Agree that said Assignee may apply for and r	receive Letters Patent for sa	id improvements in its own name; and that, when requested,
without charge to, but at the expense of, sai	d Assignee, its successors,	assigns and legal representatives, to carry out in good faith
the intent and purpose of this Assignment, the	ne undersigned will execute	e all divisional, continuing, substitute, renewal, reissue, and all rightful oaths, assignments, powers of attorney and other
an other patent applications on any and an sa paners: communicate to said Assignee its s	successors, assigns, and ren	presentatives, all facts known to the undersigned relating to
said improvements and the history thereof:	and generally do everything	ng possible which said Assignee, its successors, assigns or
representatives shall consider desirable for a	aiding in securing and main	taining proper patent protection for said improvements and
		and all patents on said improvements, in said Assignee, its
for vesting title to said improvements and a successors, assigns and legal representative.		and all patents on said improvements, in said Assignee, its
successors, assigns and legal representative	s; and	and all patents on said improvements, in said Assignee, its
successors, assigns and legal representative. Covenant with said Assignee, its successors.	s; and assigns and legal represen	and all patents on said improvements, in said Assignee, its tatives that no assignment, grant mortgage, license, or other
successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property h	s; and , assigns and legal represen terein conveyed has been ma	and all patents on said improvements, in said Assignee, its
successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property h	s; and , assigns and legal represen terein conveyed has been ma	and all patents on said improvements, in said Assignee, its tatives that no assignment, grant mortgage, license, or other
successors, assigns and legal representative. Covenant with said Assignee, its successors.	s; and , assigns and legal represen terein conveyed has been ma	and all patents on said improvements, in said Assignee, its tatives that no assignment, grant mortgage, license, or other
successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by	es; and , assigns and legal represent terein conveyed has been ma by the undersigned.	and all patents on said improvements, in said Assignee, its tatives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Name: Juergen Lahner	s; and , assigns and legal represen terein conveyed has been ma	tatives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey Witness:
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Name: Juergen Lahner 1063 Lakedale Way	es; and , assigns and legal represent terein conveyed has been ma by the undersigned.	tatives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey Witness: Witness:
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Name: Juergen Lahner	es; and , assigns and legal represent terein conveyed has been ma by the undersigned.	tatives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey Witness:
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property higher same as herein expressed is possessed by Surney Sunnyvale, CA 94089	es; and , assigns and legal represent terein conveyed has been may the undersigned. Date:	and all patents on said improvements, in said Assignee, its statives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey Witness: Witness: Printed
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Name: Juergen Lahner 1063 Lakedale Way Sunnyvale, CA 94089	es; and , assigns and legal represent terein conveyed has been ma by the undersigned.	tatives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey Witness: Witness:
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sunnyale, CA 94089 Name: Juergen Lahner 1063 Lakedale Way Sunnyale, CA 94089	es; and , assigns and legal represent terein conveyed has been may the undersigned. Date:	witness: Witness: Witness: Witness: Witness:
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Name: Juergen Lahner 1063 Lakedale Way Sunnyvale, CA 94089	es; and , assigns and legal represent terein conveyed has been may the undersigned. Date:	tatives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey Witness: Printed Witness:
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sunnyvale, CA 94089 Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyvale, CA 94086	s; and , assigns and legal representerein conveyed has been many the undersigned. Date: Date:	witness: Printed Witness: Printed Witness: Printed
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sume: Juergen Lahner 1063 Lakedale Way Sunnyvale, CA 94089 Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyvale, CA 94086	es; and , assigns and legal represent terein conveyed has been may the undersigned. Date:	witness: Printed Witness: Printed Witness: Printed
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sunnyvale, CA 94089 Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyvale, CA 94086	s; and , assigns and legal representerein conveyed has been many the undersigned. Date: Date:	witness: Witness: Printed Witness: Witness: Printed Witness:
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sume: Juergen Lahner 1063 Lakedale Way Sunnyvale, CA 94089 Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyvale, CA 94086	s; and , assigns and legal representerein conveyed has been many the undersigned. Date: Date:	witness: Printed Witness: Printed Witness: Printed
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sunnyale, CA 94089 Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyale, CA 94086 Name: Kavitha Chaturvedula 1507 New Bedford Court San Jose, CA 95131	ps; and ps; and ps; and ps; assigns and legal represent the serior conveyed has been may the undersigned. Date: Date: Date:	witness: Printed Witness: Witness: Printed Witness: Printed Witness: Printed
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sumer 1063 Lakedale Way Sunnyvale, CA 94089 Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyvale, CA 94086 Name: Kavitha Chaturvedula 1507 New Bedford Court San Jose, CA 95131	s; and , assigns and legal representerein conveyed has been many the undersigned. Date: Date:	and all patents on said improvements, in said Assignee, its statives that no assignment, grant mortgage, license, or other ade to others by the undersigned, and that full right to convey Witness: Printed Witness: Printed Witness: Printed Witness: Printed
Successors, assigns and legal representative. Covenant with said Assignee, its successors, agreement affecting the rights and property hither same as herein expressed is possessed by Sunnyale, CA 94089 Name: Kiran Atmakuri 658 Begonia Way #4 Sunnyale, CA 94086 Name: Kavitha Chaturvedula 1507 New Bedford Court San Jose, CA 95131	ps; and ps; and ps; and ps; assigns and legal represent the serior conveyed has been may the undersigned. Date: Date: Date:	witness: Printed Witness: Witness: Printed Witness: Printed Witness: Printed

PATENT REEL: 014031 FRAME: 0662

RECORDED: 04/30/2003

81517 Page 2		Peto.
Name: Krishna Devineni 64 Washington Square Dr. Milpitas, CA 95035	Date:	Witness:
Name: Srinivas Adusumalli 952 Desmet Lane San Jose, CA 95125	Date:	Witness:
Name: Randall P. Fry 1805 Snow Wind Drive Raleigh, NC 27615	Date:	Witness:
Name: A. Perce 372 Brickson Rosd Ashby, MA 01431	Date: 4-25-03	Witness: Elia D. Pierce Printed