Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FO	
PATENT	3 OIL I
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.
1. Name of conveying party(les)	2. Name and address of receiving party(ies)
Juergen K. Lahner Balamurugan Balasubramanian	Name: LSI Logic Corporation
Randall P. Fry	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes 🗸 No	
3. Nature of conveyance/Execution Date(s):	Street Address: 1621 Barber Lane
Execution Date(s) 10/3/2005; 10/4/2005	
Assignment Merger	Other Milester
Security Agreement Change of Name	City: Milpitas
Joint Research Agreement	State: <u>CA</u>
Government Interest Assignment	Country: U.SZip: <u>95035</u>
Executive Order 9424, Confirmatory License	Country: <u>U.S.</u> Zip: <u>95035</u>
Other	Additional name(s) & address(es) attached?  Yes Vo
4. Application or patent number(s):	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
11/244,530	
Additional numbers at	 tached?
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 1
Name:LSI Logic Corporation	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00
Internal Address:	Authorized to be charged by credit card
	✓ Authorized to be charged to deposit account
Street Address: 1621 Barber Lane, MS-D-106	Enclosed
	None required (government interest not affecting title)
City: Milpitas	8. Payment Information
State: CAZip:95035	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 408-433-8708	b. Deposit Account Number <u>06-1135</u>
Fax Number: 408-433-7460	'
Email Address:	Authorized User Name Eric J. Whitesell
9. Signature: / Eric James Whitesell / February 13, 20	
Signature	Date
Eric J. Whitesell, Reg. No. 38.657 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Docket No.: 05-0932 86151/6653 Patent

## **ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/WE, the undersigned, Juegen K. Lahner, Balamurugan Balasubramanian, and Randall P. Fry do hereby sell, assign, and transfer to: LSI LOGIC CORPORATION, a corporation of Delaware, having a place of business at 1621 Barber Lane, 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 nerewith, ( ) which was filed on 20 and assigned Serial Number	
and is entitled: METHOD AND COMPUTER PROGRAM FOR INCREMENTAL PLACEMENT AND ROUTING WITH NESTED SHELLS 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 filling 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 alding 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:	Ł
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**REEL: 017257 FRAME: 0119** 

Oct 04 2005 4:35PM LSI Logic 252-355-3916

Patent

Docket No.: 05-0932 86151/6653

## <u>ASSIGNMENT</u>

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/WB, the undersigned, Juergen K. Lahner. Balamuruean Balasubramanian, and Randall P. Fry do hereby sell, assign, and transfer to: LSI LOGIC CORPORATION, a corporation of Delaware, having a place of business at 1621 Barber Lane, 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	10 undersigne	ed concurrently	y herewith,
	which was filed on	, 20	_and masigned	Serial Number

and is entitled: METHOD AND COMPUTER PROGRAM FOR INCREMENTAL PLACEMENT AND ROUTING WITH NESTED SHELLS and in and to said application and all divisional, continuing, substitute, renowal, 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 Assignes, 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:		Date:	WICHEST
	Juergen K. Lehmer 570 Calle Buena Viste Morgan Hill, CA 95037		Witness: (Printed)
Name	,	Date:	Witness:
	Balamurugan Balambramanian 3585 Agate Drive, Apt. 109		Witness:
	Santa Clara, CA 95051		(Printed)
Name	Randall J. Ey	Date: 10/04/19	15 Witness: Molly Myailta
	Randall P. Pry 1900 Tempo Ct.	. 1	Witness: Mollie McKeithan
	Greenville, NC 27858		(Printed)

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RECORDED: 10/06/2005 **REEL: 017257 FRAME: 0120**