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To the Honorable Commissioner of Patents and Trademarks. Please record	
1. Name of conveying party(ies):	101254186
L. Ravi BHASKARAN	Name: LSI Logic Corporation
Additional name(s) of conveying party(ies) attached? Yes No	Name: LSI Logic Corporation Internal Address: Street Address: 1551 McCarthy Boulevard
	Street Address: 1551 McCarthy Boulevard
	City Milpitas State CA ZIP 95035
	Additional name(s) & address(es) attached? Yes No
3. Nature of Conveyance: Assignment	
Merger	
Security Agreement	
Change of Name	
Other	
Execution Date: November 12, 1999	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution	on date of this application is:
A. Patent Application No.(s) 09/391,973	B. Patent No.(s)
Additional numbers attached? Yes No	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name. Daniel J. Krueger	
Internal Address: Conley, Rose & Tayon, P.C.	
Street Address: P.O. Box 3267	
City Houston State TX ZIP 77253-3267	
	7. Total fee (37 CFR 3.41):\$ 40.00 Enclosed Authorized to be charged to deposit account
	8. Deposit account number: 03-2769
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9. Statement and Signature.	
To the best of my knowledge and belief, the foregoing information is true of	nd correct and any attached copy is a true copy of the original document.
DANIEL J. KRUEGER Can fr	December 16, 1999
Name of Person Signing / Signing Reg. No. 42,771	nature Date
	Total number of pages: 3
OMB No. 0651-011 (exp.4/94)	

ASSIGNMENT

For Good And Valuable Consideration, the receipt and sufficiency of which is hereby acknowledged, I the undersigned, TING-YIN CHEN, RAVI BHASKARAN, CHRISTOPHER KEATE and KEDAR D. SHIRALI, 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,

- () which has been executed by the undersigned concurrently herewith,
- (X) which was filed on September 8, 1999 and assigned Serial No. 09/391,973.

and is entitled "METHOD AND APPARATUS FOR PILOT-AIDED CARRIER ACQUISITION OF VESTIGIAL SIDEBAND SIGNAL", 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:	SIGNED SEPARATELY TING-YIN CHEN	Date:	, 1999
Witness:	WITNESS SIGNATURE	Date:	, 1999
Printed Name:	WITNESS		

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ASSIGNMENT (cont'd.)

Name:	.Alm	Date: Newsyl	3¢~ () 1990
rune.	RAVI BHASKARAN	Date. Nobest	<u> </u>
Witness:		Date:	, 1999
	WITNESS SIGNATURE		
Printed Name:	WITNESS		
	WITNESS		
	* * * * * * * * *		
Name:	SIGNED SEPARATELY	Date:	. 1999
	SIGNED SEPARATELY CHRISTOPHER KEATE		·
Witness:	WITNESS SIGNATURE	Date:	, 1999
	WITNESS SIGNATURE		
Printed Name:	WITNESS		
	WITNESS		

Name:	SIGNED SEPARATELY	Date:	, 1999
	KEDAR D. SHIRALI		· · · · · · · · · · · · · · · · · · ·
Witness:	WITNESS SIGNATURE	Date:	, 1999
Printed Name:	WITNESS		
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