



To the Director of the U.S. Patent at

103309006

hed original documents or copy thereof.

9-13-06

1. Name of conveying party(ies):  
Frank Worrell  
Keith D. Au  
Additional names(s) of conveying party(ies) attached? **No**

2. Name and address of receiving party(ies):  
Name: LSI Logic Corporation  
Internal Address: MS: D-106 Legal

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other: \_\_\_\_\_  
Execution Date: 9/12/2006 and 9/8/2006

Street Address: 1621 Barber Lane  
City: Milpitas State: CA ZIP: 95035  
Additional name(s) & address(es) attached? **No**

4. Application number(s) or patent number(s):  
 This document is being filed together with a new application.  
A. Patent Application No(s).  
B. Patent No(s).  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **LSI Logic Corporation**  
Internal Address: **MS: D-106 Legal**  
Street Address: **1621 Barber Lane**  
City: **Milpitas** State: **CA** ZIP: **95035**

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41) \$40.00  
 Enclosed  
 Authorized to be charged to deposit account if necessary  
8. Deposit Account Number: 12-2252

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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.*  
Christopher P. Maiorana  
Reg. No.: 42,829

Signature

September 13, 2006  
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:  
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**ASSIGNMENT OF APPLICATION**

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

We, the undersigned,

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,

which has been executed by the undersigned concurrently herewith,

and which is entitled:

**SYSTEMS FOR IMPLEMENTING SDRAM CONTROLLERS, AND BUSES ADAPTED TO INCLUDE ADVANCED HIGH PERFORMANCE BUS FEATURES**

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.

**First named inventor**

Name Frank Worrell  
Frank Worrell  
Date 9/12/2006

Witness Signature: [Signature]  
Witness Printed Name: Mark Salvatore  
Witness Address: 1621 Barber Lane  
MS-AD-106  
Milpitas, CA 95035

**Second named inventor**

Name Keith D. Au  
Keith D. Au

Date 9/08/2006

Witness Signature: [Signature]

Witness Printed Name: Cindy Yee Au

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