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To the Honorable Commissioner of Patents 102331573

attached original documents or copy thereof.

1. Name of conveying party(ies):
 Qasim R. Shami
 Jagmohan Rajpal *12/19/02*
 Additional names(s) of conveying party(ies) attached? **No**

2. Name and address of receiving party(ies):
 Name: LSI Logic Corporation
 Internal Address: Intellectual Property Law Department
M/S D-106
 Street Address: 1551 McCarthy Boulevard
 City: Milpitas State: CA ZIP: 95035
 Additional name(s) & address(es) attached? **No**

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other: _____
 Execution Date: December 18, 2002

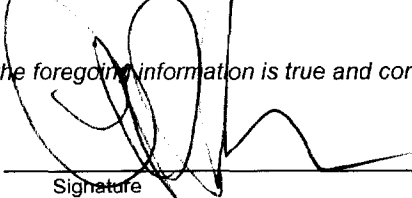
4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: December 19, 2002
 A. Patent Application No(s). _____ B. Patent No(s). _____
 Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: **LSI Logic Corporation**
 Internal Address: **Intellectual Property Law Department**
M/S D-106
 Street Address: **1551 McCarthy Boulevard**
 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**
 (Attach duplicate copy of this page if paying by deposit account)

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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  December 19, 2002
 Reg. No.: 42,829 Signature Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

10/324230
 12/19/02

Docket No. 02-0300 / 1496.00271

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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 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,

and which is entitled:

CENTRAL DYNAMIC MEMORY MANAGER

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 Qasim R. Shami
Qasim R. Shami

Date 12/18/02

Witness Signature: Sandra J. Weber

Witness Printed Name: Sandra J. Weber

Witness Address: 3400 Stevenson Bl #C-32
Fremont, CA 94538

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Second named inventor

Name

Jagmohan Bajpai

Date

12/18/02

Witness Signature:

GRF Greg Martin

Witness Printed Name:

GREGOR MARTIN

Witness Address:

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