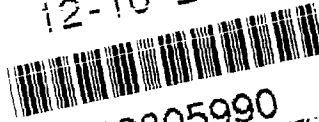


12-10-2002



102305990

To the Honorable Commissioner of Patents and T

Attached original documents or copy thereof.

1. Name of conveying party(ies):
Ray Brown 12-2-02

Additional names(s) of conveying party(ies) attached? **No**

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other: _____

Execution Date: November 22, 2002

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**

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 2, 2002

A. Patent Application No(s).
 B. Patent No(s).
10307425

Additional numbers attached? Yes No

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)

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**

DO NOT USE THIS SPACE

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 2, 2002
 Reg. No.: 42,829 Signature Date

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

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

12/09/2002 GTON11 00000066 122252 10307625
 01 FC:8021 40.00 CH

ASSIGNMENT OF APPLICATION

Docket Number: 01-682

1496.00203

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

I, the undersigned, Ray BROWN

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: READ/MODIFY/WRITE REGISTERS

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

Ray Brown

Ray BROWN

Witness Signature:

D.A. Emberson

Witness Printed Name:

DEAN EMBERSON

Witness Address:

43 CRABTREE ROAD
CAMBERLEY
SURREY
GU15 2SZ
UNITED KINGDOM

Date: 22/Nov/2002

PATENT

RECORDED: 12/02/2002

REEL: 013547 FRAME: 0658