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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): William A. Hetrick, Stanley E. Krehbiel, Jr., Joseph Grant Moore, and Carey Wayne Lewis 5-13-02 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: LSI LOGIC CORPORATION Internal Address: Corporate Legal Department Intellectual Property Services Group Street Address: 1551 McCarthy Blvd., M/S D-106 City: Milpitas State: CA Zip: 95035 Additional name(s) & address(es) attached? Yes No

J1046 U.S. PTO 10/14601 05/13/02

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 05/06/02

4. Application number(s) or patent number(s): 10,144,601 If this document is being filed together with a new application, the execution date of the application is: 05/06/02 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: Corporate Legal Department Intellectual Property Services Group Street Address: 1551 McCarthy Blvd., M/S D-106 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 [X] Authorized to be charged to deposit account 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. Duke W. Yee Signature Date: May 13, 2002

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

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

05/22/2002 6TUM11 00000039 122252 10144601 01 FC:581 40.00 CH

PATENT REEL: 012907 FRAME: 0361

ASSIGNMENT OF APPLICATION

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, the undersigned, **WILLIAM A. HETRICK, STANLEY E. KREHBIEL, JR., JOSEPH GRANT MOORE and CAREY WAYNE LEWIS**, 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:

"SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT WITHIN A DATA PROCESSING SYSTEM FOR CONVERTING A SPARE STORAGE DEVICE TO A DEFINED STORAGE DEVICE IN A LOGICAL VOLUME"

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.

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