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01-10-2003

US Department of Commerce Patent & Trademark Office

To the Assistant Commissioner of Patents: Please record the attached original documents or copy thereof. 1. Name and address of receiving party(ies): Name of conveying party(ies): 12-20-02 (1) Stanislav ALESHIN (2) Marina MEDVEDEVA Name: LSI Logic Corporation (3) Sergei RODIN Street Address: 1551 McCarthy Boulevard City: Milpitas, CA 95035 Additional name(s) of conveying Additional name(s) & address(es) attached? party(ies) attached ☐ Yes ■ No ☐ Yes ■ No 3. Nature of conveyance: Execution dates: (1) December 19, 2002 (2) December 19, 2002 Assignment (3) December 19, 2002 10,327451 Application number(s) or patent number(s): 4. If this document is being filed together with a new application, the execution date of the application is (1) December 19, 2002; (2) December 19, 2002; (3) December 19, 2002. A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ☐ Yes ■ No. Additional numbers attached? ☐ Yes ■ No 5 Name and address of party to whom 6. Total Number of applications and patents correspondence concerning document involved: One should be mailed: 7. Total fee (37 CFR 3.41)......\$ 40.00 Name: Sandeep Jaggi Internal Mail Stop D-106 ☐ Enclosed Address: LSI Logic Corporation Authorized to be charged to Deposit Acct. 1551 McCarthy Boulevard Address: Milpitas, California 95035 Deposit Account Number: 12-2252 LSI Logic Corporation (Attach copy of this page) 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. December 20, 2002 Stephen G. Sullivan, Reg. No. 38,329 Date Total number of pages including cover sheet, attachments, and documents: 2 01/09/2003 TDIAZ1 00000178 122252 10327451 01 FC:802 0.00 CH

> PATENT REEL: 013635 FRAME: 0581

Attorney Docket: 02-5877/2622P

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the undersigned Stanislav ALESHIN, Marina MEDVEDEVA and Sergel RODIN, do hereby sell, assign, and transfer to: LSI Logic Corporation, a corporation of the state of Delaware, having a principal 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 improvements which are disclosed in the application for United States Letters Patent,

[X] which has been executed by the undersigned concurrently herewit	h,
[] which was filed on and assigned Serial No	
ri la entitled	

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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 Unites 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 alding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for 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.

Signed: Name: Stanlalar ALESHIN	Date: 18.19.02
Name: Marina MEDVEDEVA	Date:
Name: Sergel RODIN	Date: 12. 19. 02.
Witnessed by:	

PATENT REEL: 013635 FRAME: 0582