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07/06/03

To: The Commissioner for Patents and Trademarks: Please record the attached original document(s) or copy(ies).

SUBMISSION TYPE:

New

7.8.03

CONVEYANCE TYPE:

Assignment

CONVEYING PARTY(IES):

Venkatesh Gopinath
Arvind Kamath
Mohammad R. Mirabedini
Ming-Yi Lee
Brian A. Baylis

EXECUTION DATE OF ASSIGNMENT:

2003.07.04
2003.07.07
2003.07.07
2003.07.03
2003.07.03

RECEIVING PARTY:

LSI Logic Corporation
1551 McCarthy Boulevard
M/S D-106
Milpitas CA 95035

CORRESPONDENT NAME AND ADDRESS:

LSI Logic Corporation
1551 McCarthy Boulevard
Intellectual Property Department
M/S D-106
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10615558

APPLICATION NUMBER(S):

#

PATENT NUMBER(S):

#

If this document is being filed together with a new application, the date the patent application was signed by the first named executing inventor is: 2003.07.03

NUMBER OF PROPERTIES:

1

TOTAL PAGES OF ASSIGNMENT:

5

FEE AMOUNT:

\$40.00

Please charge the fees to deposit account number 12-2252.

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. Charges to deposit account are authorized, as indicated herein.

2003.07.08

Date

Rick Barnes

Rick Barnes, 39,596

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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, do hereby sell, assign, and transfer to:

Assignee name: LSI Logic Corporation, a Delaware corporation
 Assignee address: 1551 McCarthy Boulevard, Milpitas CA 95035

its successors, assigns, and legal representatives (collectively referred to as "Assignee"), the entire right, title and interest for the United States and all foreign countries, in and to any all inventions and improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith unless the box below is checked,

which was filed on: _____,
 and assigned serial number: _____

and is entitled:

HARD MASK REMOVAL

and in and to the 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 the 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 the improvements; and in and to all rights of priority resulting from the filing of the United States application; and

Agree that the Assignee may apply for and receive Letters Patent for the improvements in its own name; and that, when requested, without charge to, but at the expense of, the Assignee, to carry out in good faith the intent and propose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all the improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to the improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for the improvements and for vesting title to the improvements and all applications to patents and all patents on the improvements, in the Assignee; and

Covenant with the Assignee 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; and

Grant the firm of Luedeka, Neely & Graham, P.C., P.O. Box 1871, Knoxville TN 37901, the power to insert on this document any further information that may be necessary or desirable to comply with the rules of any relevant governmental office for the recordation of this document.

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P. G. Venkatesh
 Venkatesh Gopinath

7/04/03
 Date

[Signature]
 Witness signature

Mark Salvatore
 Witness name

Witness address LSI Logic Corporation Intellectual Property Corporate Legal Department 1551 McCarthy Blvd., MS D-106 Milpitas, California 95035
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Arvind Kamath
Arvind Kamath

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Date

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