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Form PTO-1595

U.S. Department of Commerce

Docket No. 420099-707



SHEET

To the Hon. Commissioner

101068230

attached original documents or copy thereof.

1. Name of conveying party(ies):

Steven Richard RING

Additional name of conveying party attached? ___ Yes XX No

2. Name and address of receiving party(ies)

Name LSI Logic Corporation

Internal Address: M/S D-106

Street Address: 1551 McCarthy Boulevard

City: Milpitas State CA ZIP 95035

Additional name(s) and address(es) attached? ___ Yes XX No

3. Nature of conveyance:

X Assignment

___ Merger

___ Security Agreement

___ Change of Name

___ Other

Execution Date: May 20, 1999

4. Application number(s) or patent numbers:

If this document is being filed together with a new application, the execution date of the application is: _____.

A. Patent Application No.(s)

09/219,247

B. Patent No.(s)

Additional numbers attached? ___ Yes XXX No

5. Name and address party to whom correspondence concerning document should be mailed:

Name Joel D. Voelzke, Esq.

Oppenheimer Wolff & Donnelly LLP

Internal Address: 38th Floor

Street Address 2029 Century Park East

City: Los Angeles State CA ZIP 90067

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

X Enclosed

X Any discrepancy or overpayment is authorized to be charged to deposit account

8. Deposit Account number:

16-2230

(Attach duplicate copy of this page if paying by deposit account)

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.

Joel D. Voelzke

Name of Person Signing

Signature

June 11, 1999

Date

Total number of pages including cover sheet, attachments, and document: 2

Docket No. 420099-707
(LSI Docket No. P-3540)

ASSIGNMENT

SOR
STEVEN

For good and valuable consideration, the receipt and sufficient of which is hereby acknowledged, I, Stephen Richard RING, the undersigned inventor, 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,
- (X) which was filed on December 22, 1998, and assigned Serial No. 09/219,247.

and is entitled: **IMPROVEMENTS RELATING TO MULTIDIRECTIONAL COMMUNICATION SYSTEMS** 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 renewed 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 or 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 representative 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.

Name: *Stephen Ring* Date: 20th May 1999
Stephen Richard Ring

SOR
STEVEN

Witness: _____

Witness: *Simon Ward*

Printed SIMON WARD

Received Time May 20 8:56AM