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

1. Name of conveying party(ies): Michiaki SUGIYAMA, Tamaki WADA, Masachika MASUDA

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

Execution Date: July 17, 1998

2. Name and address of receiving party(ies)

Name: Hitachi LTD

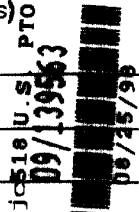
Internal Address:

Street Address: 6, Kanda Surugadai 4-Chome

Chiyoda-Ku, Tokyo Japan

City: State: ZIP:

Additional name(s) & address(es) attached? Yes 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: July 17, 1998

A. Patent Application No.(s)

09 / 139563

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP

Internal Address:

Street Address: 1300 NORTH SEVENTEENTH STREET

SUITE 1800

City: ARLINGTON State: VA ZIP: 22209

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

8. Deposit account number:

01-2135

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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.

Gregory E. Montone

Name of Person Signing 28,565

Signature

Signature

August 25, 1998

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

PATENT REEL: 9410 FRAME: 0460

Name and Address of Additional Receiving Party:

Name: Hitachi ULSI

Street Address:

5-22-1, Josuihon-cho, Kodaira-shi, Tokyo Japan

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi, Ltd. & Hitachi ULSI Systems Co., Ltd. of Chiyoda-ku, Tokyo, Japan & Kodaira-shi, Tokyo, Japan its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

SEMICONDUCTOR DEVICE

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed by me even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi, Ltd. & Hitachi ULSI Systems Co., Ltd., its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, Ltd. & Hitachi ULSI Systems Co., Ltd.

- | | (Full Name) | (Signature) |
|--|-------------|--------------------------|
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| Residence _____ Citizenship _____ | | |
| Post Office Address _____ | | |
| 5) Date _____ Inventor _____ | | |
| Residence _____ Citizenship _____ | | |
| Post Office Address _____ | | |

Witness(es)

All) _____ 2) Hiroshi Tanaka 4) _____

1) Haruichi Hanemoto 3) Kazunori Sugahara 5) _____ PATENT
RECORDED: 08/25/1998 FILE: 9410 FRAME: 0462