



PATENT ONLY (ref OG 7/28/92)

08-08-2003

To the Honorable Commission
Please record the attached



is
sof.

102519741

8.403

- 1. Name of Party(ies) conveying an interest:
- 2. Name and Address of Party(ies) receiving an interest:

Yoshihiko SHIMANUKI

HITACHI, LTD.
6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo, JAPAN
AND
HITACHI YONEZAWA ELECTRONICS CO., LTD.
3-3274, Aza Yagihashi Higasi
Oaza Hanazawa, Yonezawa-shi
Yamagata, JAPAN

3. Description of the interest conveyed: Assignment

4. Application number(s) or patent number(s).

Additional sheet attached? Yes No

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

DATE

- A. Patent Application No. (s)
- B. Patent No. (s)

09/988,645

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

John R. Mattingly
Mattingly, Stanger & Malur, P.C.
1800 Diagonal Road, Suite 370
Alexandria, Virginia 22314

6. Number of applications and patents involved: One

7. Amount of fee enclosed or authorized to be charged: \$40.00

8. The Commissioner is hereby authorized to charge Deposit Account No. 50-1417 if no check is attached.

DO NOT USE THIS SPACE

08/05/2003 ZJUWAR1 00000101 09988645

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40.00 OP

9. Execution date of attached document: October 5, 2001

10. To the best of my knowledge and belief, I declare under penalty of perjury under the laws of the United States of America that the foregoing information is true and correct and that any attached copy is a true copy of the original document.

Shrinath Malur
Name of Person Signing

Signature

August 4, 2003
Date

Total number of pages being submitted: 2

ASSIGNMENT
(讓 渡 証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD. and Hitachi Yonezawa Electronics Co., Ltd., corporations organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 3-3274, Aza Yagihashiigasi, Oaza Hanazawa, Yonezawa-shi, Yamagata, Japan, respectively, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD. and Hitachi Yonezawa Electronics Co., Ltd., their successors and assigns, all my right, title and interest, in and for the United States of America, in and to

A SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

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 on 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. and Hitachi Yonezawa Electronics Co., Ltd., their successors, assigns or other legal representatives, to the full end of 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. and Hitachi Yonezawa Electronics Co., Ltd.

Signed on the date(s) indicated aside signatures:

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1) <u>Yoshihiko Shimanuki (Yoshihiko SHIMANUKI)</u>	<u>5 / October / 2001</u>
2) _____	_____
3) _____	_____
4) _____	_____
5) _____	_____
6) _____	_____
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____