

02-05-2004

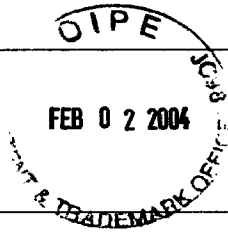


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B/O FORM PTO 1595 (1/31/92)
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2/2/04

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

1. Name of Conveying Party(ies):

(1) NORIKATSU TAKAURA, (2) HIDEYUKI MATSUOKA, (3) RIICHIRO TAKEMURA, (4) KOUSUKE OKUYAMA, (5) MASAHIRO MONIWA, (6) AKIO NISHIDA, (7) KOTA FUNAYAMA AND (8) TOMONORI SEKIGUCHI

Additional names of conveying parties attached: Yes No

2. Name and Address of Receiving Party(ies):

Name: **Renesas Technology Corporation**
Address: 4-1, Marunouchi 2-chome
City: Chiyoda-ku, Tokyo
Japan

3. Nature of Conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Execution Dates: (1)(2)(3)(8) November 4, 2003; (4)(5) November 7, 2003; (6) November 12, 2003 and (7) November 19, 2003

4. (a) Patent Application Number(s):

10/693,987

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

4. (b) Patent Numbers:

5. Name and Address of Party to whom Correspondence Concerning this Document Should be Mailed:

Name: **Stanley P. Fisher**

Address: **Reed Smith LLP**
3110 Fairview Park Dr.
Suite 1400
Falls Church, VA 22042

6. Total Number of Applications and Patents Involved: 1

7. Total Fee: **\$40.00**
(37 C.F.R. § 3.41)

- Enclosed.
- Authorized to be charged to deposit account.

8. Deposit Account Number: **08-1480**

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9. Statement and Signature:

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

February 2, 2004

Stanley P. Fisher, Registration No. 24, 344

Juan Carlos A. Marquez, Registration No. 34,072

Total number of pages comprising cover sheet: 1

02/04/2004 REGISTRATION 00000075 10693987

01 FC:8021

40.00 DP

ASSIGNMENT
(譲渡証)

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 Renesas Technology Corp.
a corporation organized under the laws of Japan,
located at 4-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
receipt of which is hereby acknowledged I do hereby sell and assign to said Renesas Technology Corp.
its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

A SEMICONDUCTOR MEMORY DEVICE USING VERTICAL-CHANNEL TRANSISTORS

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 Renesas Technology Corp.
its 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 Renesas Technology Corp.

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)
(発明者フルネームサイン)

Date Signed
(署名日)

1) <u>Yoshihiko Takama</u>	<u>11/4/2003</u>
2) <u>Hideyuki Matsumoto</u>	<u>11/4/2003</u>
3) <u>Riichiro Takemura</u>	<u>11/4/2003</u>
4) <u>Kousuke Ohyanagi</u>	<u>11/7/2003</u>
5) <u>Masahiro Moriwaka</u>	<u>11/7/2003</u>
6) <u>Akiro Hishida</u>	<u>11/12/2003</u>
7) <u>Kota Furuyama</u>	<u>11/19/2003</u>
8) <u>Tomonori Sekiguchi</u>	<u>11/4/2003</u>
9) _____	_____
10) _____	_____