

06-16-2003



FORM PTO-1595
(Rev. 10/02)

102474240
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 67161-031

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Party(ies): **6.6.03**
Hiroaki TANIZAKI, Hideto HIDAKA, Tsukasa OOISHI
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: RENESAS TECHNOLOGY CORP.
Address: 4-1, Marunouchi 2-chome,
Chiyoda-ku,
TOKYO 100-6334 JAPAN
Name: MITSUBISHI ELECTRIC ENGINEERING
COMPANY LIMITED
6-2, Ohtemachi, Chiyoda-ku,
TOKYO 100-0004 JAPAN
Additional name(s) & address(es) attached? Yes No



3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: April 17, 2003, April 17, 2003, April 17, 2003

4. Application number(s) or patent number(s):
If the document is being filed together with a new application, the execution date of the application is: April 17, 2003, April 17, 2003, April 17, 2003
A. Patent Application No(s). **10455479**
B. Patent No(s).
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: MCDERMOTT, WILL & EMERY
Internal Address:
Street Address: 600 13th Street, N.W.
City: Washington State: D. C. Zip: 20005-3096

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: 500417

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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.

Stephen A. Becker, 26,527

June 6, 2003

Name and Registration No. of Person Signing

Signature

Date

Total number of pages including cover sheet: 3

OMB No. 0651-0027 (exp. 6/30/2005)

06/13/2003 ECOOPER 00000065 500417 10455479
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PATENT
REEL: 014161 FRAME: 0687

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ATTORNEY DOCKET NO.

ASSIGNMENT

Application No. _____

Filed _____

Insert Name(s) of Inventor(s) ➡

WHEREAS, Hiroaki TANIZAKI, Hideto HIDAKA and Tsukasa OOISHI

Insert Title of Invention ➡

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in _____

NONVOLATILE MEMORY DEVICE WITH SENSE AMPLIFIER SECURING
READING MARGIN

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

Insert Date of Signing of Application ➡

on April 17, 2003; and

Insert Name of Assignee ➡

WHEREAS, (1)Renesas Technology Corp.

(2)MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED

Insert Address of Assignee ➡

of (1)4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-6334 JAPAN

(2)2-6-2, OHTEMACHI, CHIYODA-KU, TOKYO 100-0004 JAPAN

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX IF APPROPRIATE ➡

in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional, conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of McDermott, Will & Emery the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>April 17, 2003</u>	Name of Inventor	<u>Hiroaki Tanizaki</u> Hiroaki TANIZAKI
Date	<u>April 17, 2003</u>	Name of Inventor	<u>Hideto Hidaka</u> Hideto HIDAKA
Date	<u>April 17, 2003</u>	Name of Inventor	<u>Tsukasa Oishi</u> Tsukasa OOISHI
Date	_____	Name of Inventor	_____
Date	_____	Name of Inventor	_____
Date	_____	Name of Inventor	_____
Date	_____	Name of Inventor	_____
Date	_____	Name of Inventor	_____
Date	_____	Name of Inventor	_____