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SHEET

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

Attorney's Docket No. 030682-129

Substitute for Form PTO-1595



To the Director of the United States Patent and Trademark Office

102981949

attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Yutaka TAKIKAWA
- 2) Koichi KAWAUCHI
- 3) Satoko KAMAKURA
- 4) Kazuo NOMURA
- 5) Kazuyuki KAWAMOTO
- 6) Nobutaka IMANISHI

2. Name and address of receiving party(ies):

Name: Renesas Technology Corp.

Address:

4-1, Marunouchi 2-chome
Chiyoda-ku
Tokyo
Japan

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

3. Nature of conveyance:

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

Execution Date: March 22, 2005

Additional name(s) & addresses 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: March 22, 2005

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Platon N. Mandros

Address:

Burns, Doane, Swecker & Mathis, L.L.P.
Customer Number 2 1 8 3 9
P.O. Box 1404
Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ \$40.00 (8021)

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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.

Platon N. Mandros
Name of Person Signing

22,124
Reg. No.

Signature

R. No 32137

April 5, 2005
Date

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ASSIGNMENT

THIS ASSIGNMENT, by:

Yutaka TAKIKAWA, Koichi KAWAUCHI, Satoko KAMAKURA, Kazuo NOMURA,

Kazuyuki KAWAMOTO and Nobutaka IMANISHI, all of c/o Renesas ISI Design Corporation, 1-17, Chuo 3-chome, Itami-shi, Hyogo 664-0851 Japan

(hereinafter referred to as "the Assignor(s)"), respectively, witnesseth:

WHEREAS, the Assignor(s) has(have) invented certain new and useful improvements in:
SEMICONDUCTOR MEMORY

_____ , set forth in an application for Letters Patent of the United States, [] which is a provisional application to be filed herewith; [x] which is a non-provisional application having an oath or declaration executed on even date herewith prior to filing of application; [] bearing Application

No. _____ , and filed on _____ ; and

WHEREAS, Renesas Technology Corp. a corporation duly organized under and pursuant to the laws of Japan and having its principal place of business at: 4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO JAPAN

_____ (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor(s) has(have) sold, assigned, transferred, and set over, and by these presents does(do) sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made;

Application Serial No. _____
Attorney's Docket No. 030682-129

AND for the same consideration, the Assignor(s) hereby covenant(s) and agree(s) to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor(s) is(are) the sole and lawful owner(s) of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor(s) has(have) good and full right and lawful authority to sell and convey the same in the manner herein set forth:

AND for the same consideration, the Assignor(s) hereby covenant(s) and agree(s) to and with the Assignee, its successors, legal representatives, and assigns that the Assignor(s) will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignor(s) hereby authorize(s) and request(s) the attorneys of BURNS, DOANE, SWECKER & MATHIS, L.L.P. of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignor(s) hereby request(s) the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee, as the Assignee of said inventions and the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date March 22, 2005 Name of Assignor Yutaka Takikawa
Yutaka TAKIKAWA

Date March 22, 2005 Name of Assignor Koichi Kawauchi
Koichi KAWAUCHI

Date March 22, 2005 Name of Assignor Satoko Kamakura
Satoko KAMAKURA

Date March 22, 2005 Name of Assignor Kazuo NOMURA
Kazuo NOMURA

Date March 22, 2005 Name of Assignor Kazuyuki KAWAMOTO
Kazuyuki KAWAMOTO

Date March 22, 2005 Name of Assignor Nobutaka IMANISHI
Nobutaka IMANISHI

Date _____ Name of Assignor _____

Date _____ Name of Assignor _____