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SHEET

Docket No.: 067161-0453

PATENTS ONLY

To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

0.21.21

1. Name of Conveying Party(ies)  
 Hiroki SHIMANO, Fukashi MORISHITA, Kazutami ARIMOTO

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

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

Internal Address:

Address: 6-2, Otemachi 2-chome, Chiyoda-ku, Tokyo  
 100-0004 JAPAN

Additional name(s) & address(es) attached?  Yes  No

3. Nature of Conveyance/Execution Date(s)

Execution Date(s): December 6, 2007

Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other

4. Application or patent number(s):  
 A. Patent Application No(s).

This document is being filed together with a new application.  
 B. Patent No(s).

Additional numbers attached?  Yes  No

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

Name: MCDERMOTT WILL & EMERY LLP  
 Internal Address:

Street Address: 600 13th Street, N.W.

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Phone Number: 202.756.8000  
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6. Total number of applications and patents involved: 1

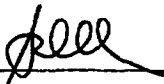
7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

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 None required (government interest not affecting title)

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9. Signature.  
 Stephen A. Becker 26,527  December 12, 2007

Name and Registration No. of Person Signing Signature Date

Total number of pages including cover sheet, attachments and documents: 3

Attorney Docket No.: \_\_\_\_\_

### ASSIGNMENT

WHEREAS, Hiroki SHIMANO, Fukashi MORISHITA and Kazutami ARIMOTO, hereinafter called the "Assignors," have jointly invented a new and useful invention entitled Semiconductor Memory Device, for which he has:

- (a) filed an application for United States Letters Patent on \_\_\_\_\_ as (Serial No. \_\_\_\_\_); or
- (b) executed an application for United States Letters Patent on December 6, 2007; or
- (c) filed a provisional application on \_\_\_\_\_ as (Serial No. \_\_\_\_\_); and

WHEREAS, Renesas Technology Corp., a corporation organized and existing under the laws of Japan, having a place of business at: 6-2, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-0004 Japan, hereinafter called the "Assignee," is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under any Letters Patent which may be obtained to said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient considerations, the receipt of which by said Assignors from the said Assignee is hereby acknowledged, the said Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Letters Patent and Letters Patent therefor, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignors do hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

The undersigned hereby grant(s) the attorneys of McDermott, Will & Emery LLP 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 United States Patent and Trademark Office for recordation of this document.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the said Assignors have hereunto set his hands and affixed his seal.

Date: December 6, 2007 *Hiroki Shimano* (Seal)  
Hiroki SHIMANO

Date: December 6, 2007 *Fukashi Morishita* (Seal)  
Fukashi MORISHITA

Date: December 6, 2007 *Kazutami Arimoto* (Seal)  
Kazutami ARIMOTO

Date: \_\_\_\_\_ (Seal)

Date: \_\_\_\_\_ (Seal)

Date: \_\_\_\_\_ (Seal)