

05-30-2003



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(Rev. 10/02)

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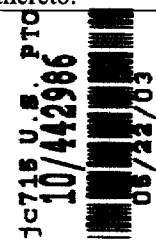
U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Docket No.: 67161-019 **5-22-03** PATENTS ONLY

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

1. Name of Conveying Party(ies):  
Hideyuki NODA, Hiroki SHIMANO  
  
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  
  
Additional name(s) & address(es) attached?  Yes  No



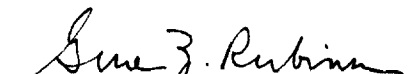
3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
  
Execution Date: May 6, 2003, May 6, 2003

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: May 6, 2003, May 6, 2003  
  
A. Patent Application No(s):  
**10, 442986**  
  
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.*  
  
Gene Z. Rubinson, 33,351  May 22, 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)

05/30/2003 ELCOOPER 00000017 500417 10442986

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PATENT  
REEL: 014105 FRAME: 0514

**ASSIGNMENT**

WHEREAS, Hideyuki NODA and Hiroki SHIMANO,

hereinafter called the "Assignors," have jointly invented a new and useful invention entitled CONTENT ADDRESSABLE MEMORY CAPABLE OF STABLY STORING TERNARY DATA, 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 May 6, 2003; 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: 4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-6334 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 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: May 6, 2003  
(Seal)

*Hideyuki Noda*  
Hideyuki NODA

Date: May 6, 2003  
(Seal)

*Hiroki Shimano*  
Hiroki SHIMANO

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

\_\_\_\_\_

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

\_\_\_\_\_