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U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Mitsuaki HAYASHI
Shuji NAKAYA
Makoto KOJIMA

4-18-03

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

Name: Matsushita Electric Industrial Co., Ltd.

Internal Address:

Street Address: 1006, Oaza Kadoma-shi, Osaka

571-0050, JAPAN

City: State: ZIP:

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

10912 U.S. PTO
10/418049
04/18/03

Additional names(s) of conveying party(ies)

Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: April 4, 2003

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: April 4, 2003

A. Patent Application No.(s)

B. Patent No.(s)

10418049

Additional numbers attached? Yes No

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

Name: James E. Ledbetter, Esq.

Internal Address: Registration No. 28,732

STEVENS, DAVIS, MILLER & MOSHER, LLP

L8462.03103

Street Address: 1615 L Street, N.W., Suite 850

City: Washington State: DC ZIP: 20036

6. Total number of applications and patents involved:

1

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

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19-4375

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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.

James E. Ledbetter

April 18, 2003

Name of Person Signing

Signature

2

Date

Total number of pages including cover sheet, attachments, and document:

04/21/2003 0651-0027 00000035 10418049

Mail documents to be recorded with required cover sheet information to:

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40.00 DP

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT

REEL: 013985 FRAME: 0667

USA
ASSIGNMENT OF PATENT APPLICATION

- (1) Mitsuaki HAYASHI
- (2) Shuji NAKAYA
- (3) Makoto KOJIMA
- (4) _____
- (5) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

- (6) MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
- (6a) of 1006, Oaza Kadoma-shi, Osaka 571-0050 JAPAN
- (7) _____
- (7a) of _____

(hereinafter designated as the Assignee) the entire rights, title and interest for the United States, its territories, dependencies and possessions, and for the country of

- (8) _____ in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

- (9) Semiconductor Memory Device (Case No. _____)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

- (10) on _____ or has already filed
- (11) U.S. appln. Serial No. _____, filed on _____.

- (12) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

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

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining such evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) 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.

6) The undersigned hereby grant(s) the firm of STEVENS, DAVIS, MILLER & MOSHER, L.L.P. the power to insert on this assignment any further identification which may be necessary or desirable to comply with the rules of the United States Patent Office for recordation of this document.

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

Date <u>April 4, 2003</u>	Signature of Inventor	(1) <u>Mitsuaki Hayashi</u>	(Seal)
Date <u>April 4, 2003</u>	Signature of Inventor	(2) <u>Shuji Nakaya</u>	(Seal)
Date <u>April 4, 2003</u>	Signature of Inventor	(3) <u>Makoto Kojima</u>	(Seal)
Date _____	Signature of Inventor	(4) _____	(Seal)
Date _____	Signature of Inventor	(5) _____	(Seal)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A., or (b) a U.S. Counsel if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date <u>April 4, 2003</u>	Signature of Witness	<u>Azusa Kondo</u>	(Seal)
Date <u>April 4, 2003</u>	Signature of Witness	<u>Mitsuru Hatta</u>	(Seal)