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FORM PTO-1595  
(Rev. 10/02)



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Docket No.: 71025-013

102952103

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

1. Name of Conveying Party(ies):  
**Yasunari SUGITA, Akihiro ODAGAWA, Hideaki ADACHI,  
Satoshi YOTSUHASHI, Tsutomu KANNO, Kiyoshi OHNAKA**  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.  
Address: 1006, Oaza Kadoma,  
Kadoma-shi,  
Osaka, 571-8501 JAPAN



3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
Execution Date: January 18, 2005, January 18, 2005, January 18,  
2005, January 20, 2005, January 18, 2005, January  
18, 2005 (respectively)

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

4. Application number(s) or patent number(s): **11061920**  
If the document is being filed together with a new application, the  
execution date of the application is:  
A. Patent Application No(s).

January 18, 2005, January 18, 2005, January 18, 2005, January  
20, 2005, January 18, 2005, January 18, 2005 (respectively)  
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 LLP  
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.*  
Michael E. Fogarty, 36,139 February 22, 2005  
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)

03/03/2005 ECOOPER 00000360 500417 11061920  
01 FC:8021 40.00 DA

PATENT  
REEL: 016312 FRAME: 0948

**ASSIGNMENT**

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) <u>Yasunari SUGITA</u>	(4) <u>Satoshi YOTSUHASHI</u>
(2) <u>Akihiro ODAGAWA</u>	(5) <u>Tsutomu KANNO</u>
(3) <u>Hideaki ADACHI</u>	(6) <u>Kiyoshi OHNAKA</u>

who have made a certain new and useful invention, hereby sell, assign and transfer unto

**MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.**

1006, Oaza Kadoma,

Kadoma-shi,

Osaka 571-8501 JAPAN

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

**VARIABLE RESISTANCE ELEMENT, METHOD OF MANUFACTURING THE ELEMENT, MEMORY CONTAINING THE ELEMENT, AND METHOD OF DRIVING THE MEMORY**

(a) for which an application for United States Letters Patent was filed on \_\_\_\_\_, and identified by United States Serial No. \_\_\_\_\_; or

(b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorize and request the United States Commissioner for Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS	DATE SIGNED
1) <u>Yasunari Sugita</u> Name: Yasunari SUGITA	<u>January 18, 2005</u>
2) <u>Akihiro Odagawa</u> Name: Akihiro ODAGAWA	<u>January 18, 2005</u>
3) <u>Hideaki Adachi</u> Name: Hideaki ADACHI	<u>January 18, 2005</u>
4) <u>Satoshi Yotsubashi</u> Name: Satoshi YOTSUHASHI	<u>January 20, 2005</u>
5) <u>Tsutomu Kanno</u> Name: Tsutomu KANNO	<u>January 18, 2005</u>
6) <u>Kiyoshi Ohnaka</u> Name: Kiyoshi OHNAKA	<u>January 18, 2005</u>