



To the Honorable Commissioner of Patents and Tra

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al documents or copy thereof.

1. Name of conveying party(ies):

Akihiro Odagawa Hiroshi Sakakima Masayoshi Hiramoto Nozomu Matsukawa



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

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

Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., Ltd.

Internal Address: _____

Street Address: 1006, Oaza Kadoma, Kadomashi

City: Osaka

State/Country: Japan ZIP: 571-8501

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

3. Nature of conveyance:

- [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other _____

Execution Date: July 26, 2000

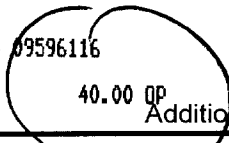
4. Application number(s) or patent number(s):

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

A. Patent Application No.(s)

09/596,116 09/08/2000 AGOITOM 00000054 09596116 05 FC:581

B. Patent No.(s)



Additional Numbers attached? [] Yes [x] No

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

Name: Neil A. DuChez

Internal Address: Renner, Otto, Boisselle & Sklar

Street Address: 1621 Euclid Avenue

19th Floor

City: Cleveland

State: Ohio ZIP: 44115

6. Total number of applications and patents involved: [1]

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

[x] Enclosed

[] Authorized to be charged to deposit account

8. Deposit account number:

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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.

Neil A. DuChez

08/30/00

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Signature

Date

Reg. No. 26,725 Total number of pages including cover sheet attachments, and document: [3]

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

ASSIGNMENT

WHEREAS, the ASSIGNOR(S), being the following named inventor(s):

Akihiro Odagawa
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Hiroshi Sakakima
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Ikoma-shi, Nara 630-0243 Japan

Nozomu Matsukawa
376 Tutuicho
Yamatokoriyama-shi, Nara 639-1123 Japan

are inventor(s) of and owner(s) of rights to a certain invention entitled:

For: MAGNETO-RESISTANCE EFFECT ELEMENT, MAGNETO-RESISTANCE EFFECT MEMORY CELL, MRAM, AND METHOD FOR PERFORMING INFORMATION WRITE TO OR READ FROM THE MAGNETO-RESISTANCE EFFECT MEMORY CELL

for which application for Letters Patent of the United States was executed on the date indicated below, and

WHEREAS, the ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
1006, Oaza Kadoma, Kadomashi
Osaka 571-8501 Japan

is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum corresponding

to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement, charge or other encumbrance has been or will be entered into which would conflict with this assignment and sale.

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or his legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Signed:

Date:

Akihiro Odagawa

Akihiro Odagawa

July 26, 2000

Hiroshi Sakakima

Hiroshi Sakakima

July 26, 2000

Masayoshi Hiramoto

Masayoshi Hiramoto

July 26, 2000

Nozomu Matsukawa

Nozomu Matsukawa

July 26, 2000