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COVER SHEET

ILY 1.7.02

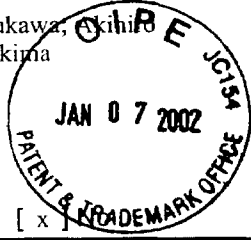
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1. Name of conveying party(ies):

Masayoshi Hiramoto; Nozomu Matsukawa; Odagawa; Kenji Iijima; Hiroshi Sakakima



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, Kadoma-shi

City: Osaka

State/Country: Japan ZIP: 571-8501

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

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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)
09/969,558

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

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November 9, 2001

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PATENT REEL: 012434 FRAME: 0115

01/10/2002 BHP/STEN 00000026 09969558 05 FC-581

ASSIGNMENT

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

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For: MAGNETORESISTIVE DEVICE AND/OR MULTI-MAGNETORESISTIVE DEVICE
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, Kadoma-shi,
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:

Masayoshi Hiramoto

Masayoshi HIRAMOTO

September, 30, 2001

Nozomu Matsukawa

Nozomu MATSUKAWA

October, 5, 2001

~~Nozomu Matsukawa~~ ^{n.m.} Akihiro Odagawa

Akihiro ODAGAWA

October, 5, 2001

Kenji Iijima

Kenji IIJIMA

September, 21, 2001

Hiroshi Sakakima

Hiroshi SAKAKIMA

October, 9, 2001