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09/979577

10 Rec'd PCT 19 NOV 2001

FORM PTO-1595 (REV 6-93) REC

01-29-2002

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1. Name of conveying party(ies): Naohiro Kimura; Katsuya Watanabe; Hiromichi Ishibashi
Additional name(s) of conveying party(ies) attached? [] Yes [x] No

11.19.01

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

3. Nature of conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: November 2, 2001

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4. Application number(s) or patent number(s): 09/979577 If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 11/29/2001 SNAJARRO 00000030 09979577 04 FC:581 40.00 OP 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. DuChes 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: (Attach duplicate copy of this page if paying by deposit account)

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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. DuChes Signature Date 11/14/01

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PATENT REEL: 012502 FRAME: 0729

ASSIGNMENT

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

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For: INFORMATION REPRODUCTION APPARATUS, INFORMATION CARRIER,
AND INFORMATION RECORDING APPARATUS
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
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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:

Naohiro Kimura

November 2, 2001

Naohiro KIMURA

Katsuya Watanabe

November 2, 2001

Katsuya WATANABE

Hiroemichi Ishibashi

November 2, 2001

Hiroemichi ISHIBASHI