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Attorney Docket No.: 10407-118US(A3034MT-US1)

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Please record the attached original documents

1. Name of conveying party(ies): Hiroyuki FURUYA Akira ENOKIHARA Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Matsushita Electric Industrial Co., Ltd 1006, Oaza Kadoma Kadoma-shi, Osaka 571-8501 JAPAN Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other

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Execution Date: September 30, 2004

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:
 September 30, 2004

A. Patent Application No.(s)	B. Patent No.(s)
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Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: John D. Simmons AKIN GUMP STRAUSS HAUER & FELD LLP One Commerce Square 2005 Market Street, Suite 2200 Philadelphia, PA 19103 Direct Dial: 215-965-1268 E-mail: jsimmons@akingump.com	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR 3.41).....\$40 <input checked="" type="checkbox"/> Check enclosed <input checked="" type="checkbox"/> Authorization to charge deficient fees or credit any overpayment to Deposit Account. 8. Deposit Account Number: 50-1017 (Attach duplicate copy of this page if paying by deposit account)
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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.

_____ John D. Simmons Name of Person Signing	 _____ Signature	December 20, 2004 _____ Date
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Total number of pages including cover sheet, attachments, and documents: 3

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Equivalent to Form PTO-1595

PATENT REEL: 016758 FRAME: 0880

Attorney Docket No.: 10407-118US
Your Ref. No.: A3034MT-US1

JOINT

ASSIGNMENT

WHEREAS, we, **Hiroyuki FURUYA** and **Akira ENOKIHARA** respectively citizens of **Japan**, with respective post office addresses of **1-6-24-403, Jingu, Nara-shi, Nara 631-0804 Japan** and **1-4-3-506, Saidajikunimicho, Nara-shi, Nara 631-0823 Japan**, hereinafter generally referred to as "**ASSIGNORS**," have invented a certain new and useful

OPTICAL SIGNAL TO ELECTRICAL SIGNAL CONVERTER

for which we have executed a United States patent application, Application No. _____, filed _____, 200 and

ASSIGNORS authorize **ASSIGNEE** or **ASSIGNEE's** representative to insert the Application Number and Filing date of this application if they are unknown at the time of execution of this Assignment.

WHEREAS, **MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.**, a **Japanese** corporation having a place of business at **1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 Japan**, hereinafter generally referred to as "**ASSIGNEE**", is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned **ASSIGNORS**, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named **ASSIGNEE**, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNORS had this assignment and sale not been made; and for the aforesaid consideration ASSIGNORS hereby covenant, agree and undertake to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNORS.

September 30, 2004
DATE

Hiroyuki Furuya (Seal)
Hiroyuki FURUYA

September 30, 2004
DATE

Akira Enokihara (Seal)
Akira ENOKIHARA