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RECOR

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

Attorney Docket : 033216.080DIV1

1. Name of conveying party(ies): Kaoru ISHIDA Tsuguhiko KORENAGA Additional name of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party(ies) Name: Matsushita Electric Industrial Co., Ltd. Street Address: 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN

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3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: January 28, 2003

Additional Name(s) & address(es) attached? [] Yes [X] No

4. Application number(s) or patent number(s): [X] This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Glenn J. Perry Internal Address: SMITH, GAMBRELL & RUSSELL, LLP Street Address: 1850 M Street, NW - Suite 800 City: Washington State: DC Zip: 20036

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: 02-4300 (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. Glenn J. Perry Signature Date: November 17, 2006

Total number of pages including cover sheet, attachments, and documents: - 3 - Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments, Washington, D.C. 20231

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ASSIGNMENT

This assignment agreement is applicable to an invention entitled:
THREE-DIMENSIONAL OPTICAL WAVEGUIDE, METHOD OF
MANUFACTURING SAME, OPTICAL MODULE, AND OPTICAL TRANSMISSION
SYSTEM

The PATENT RIGHTS referred to in this agreement are:

- (check one) a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment.
- U.S. patent application Serial No. _____, filed _____.
- a U.S. patent application based on PCT International Application No. filed on (date) _____, U.S. patent application Serial No. _____, if known).
- U.S. patent No. _____, issued _____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

- (check one) U.S. patent rights only.
- Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) Matsushita Electric Industrial Co., Ltd.
(Address) 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN

The ASSIGNEE is:

- (check one) An Individual.
- A Partnership.
- A Corporation of Japan (specify state or country)
- (other)

The ASSIGNOR(S), receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEE, its successors and assigns:
the full and exclusive right to the invention;

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO

ASSIGNEE: Matsushita Electric Industrial Co., Ltd.

INVENTION TITLE: THREE-DIMENSIONAL OPTICAL WAVEGUIDE,
METHOD OF MANUFACTURING SAME, OPTICAL MEDULE,
AND OPTICAL TRANSMISSION SYSTEM

the entire right, title and interest in and to the PATENT RIGHTS;
the right to sue and recover for any past infringement; and,
the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable provisions,
based on any earlier patent applications for this invention.

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby
authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to
the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of
said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives,
any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings,
sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and
reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be
issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable
to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said
invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this
application to check any appropriate boxes and to insert the Serial Number and filing date in this
document after it has been executed.

Kaoru ISHIDA Kaoru Ishida
Name of First Inventor Signature Date 01/28/2003

Tsuguhiro KORENAGA Tsuguhiro Korenaga
Name of Second Inventor, if any Signature Date 01/28/2003

Name of Third Inventor, if any Signature Date

Name of Fourth Inventor, if any Signature Date

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