

A/D 581.40

DT09 Rec'd PCT/PTO 07 DEC 2004

FORM PTO-1595 (modified)

07-22-2005

ER SHEET

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To the Honorable Assistant Secretary  
thereof.

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1. Name of conveying party(ies):

Tadamasa TOMA; Yoshinori MATSUI; and  
Youji NOTOYA

Additional name(s) of conveying party(ies) attached? 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

Additional name(s) & address(es) attached? No

3. Nature of conveyance:

Assignment                       Merger  
 Security Agreement               Change of Name  
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Execution Date: December 3, 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: December 3, 2004

A. Patent Application No.(s)

B. Patent No.(s)  
, issued

Additional numbers attached? No

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

Name: WENDEROTH, LIND & PONACK, L.L.P.  
Attn: Michael S. Huppert, Esq.

Street Address: 2033 K Street, N.W., Suite 800

City: Washington, State: DC ZIP: 20006-1021

6. Total number of applications and patents involved: 1

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

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*Michael S. Huppert*  
Signature

December 7, 2004  
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PATENT  
REEL: 016783 FRAME: 0543

# ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned  
Tadamasa TOMA, Yoshinori MATSUI and Youji NOTOYA

Insert Name(s)  
of Inventor(s)

Insert Name(s)  
of Assignee(s)

Address

Title of  
Invention

Date of  
Signing  
of Application

the undersigned hereby sell(s) and assign(s) to

Matsushita Electric Industrial Co., Ltd.

of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

MULTIPLEXER AND DEMULTIPLEXER

for which an application for patent in the United States has been executed by the undersigned

on December 3, 2004

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, D.C. 20006-1021, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date December 3, 2004, Name of the Inventor Tadamasa Ima

Date December 3, 2004, Name of the Inventor Yoshinori Matsui

Date December 3, 2004, Name of the Inventor yoji metaya

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Kyoko Uchibayashi

Witness Shoichiro Nakata

### ACKNOWLEDGMENT

\_\_\_\_\_  
\_\_\_\_\_) ss

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came the above-named me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

\_\_\_\_\_  
Official Signature

\_\_\_\_\_  
Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. \_\_\_\_\_ Filing Date December 7, 2004

Applicant Reference Number FP03045 Atty Docket No. 2004-1953A

Title of Invention \_\_\_\_\_