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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Kazutaka ABE et al.

Serial No.: 09/530,540 (PCT/JP99/04750)

Filed: May 2, 2000

For: SIGNAL PROCESSING APPARATUS

ASSIGNMENT TRANSMITTAL LETTER

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

09/530540

Sir:

Please record the attached Assignment in the name of the assignor and the assignee as indicated below and return the original document to the undersigned.

1. Name of Conveying Party(ies):

Kazutaka ABE, Masaharu MATSUMOTO, Akihisa KAWAMURA, Masatoshi SHIMBO, and Naoki EJIMA.

2. Name and Address of Receiving Party(ies):

MATSUSHITA ELECTRIC INDUSTRIAL 09/06/2000 TOLPE 00000143 09530540  
1006, Oaza Kadoma, Kadoma-shi 02 FC:581  
Osaka 571-8501, JAPAN.

40.00 OP

3. Execution Date of Assignment: June 12, 2000.

4. If this Assignment is being filed together with a new application, the execution date of the application is: June 12, 2000.

5. Total number of applications and patents involved: one.

All correspondence should be addressed to:

Roger W. Parkhurst  
PARKHURST & WENDEL, L.L.P.  
Suite 210  
1421 Prince Street  
Alexandria, VA 22314-2805.

The Assignment recordation fee (\$40.00) is covered by our attached Check Number 12904.

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. Total number of pages including cover sheet, attachments and document 3.

If there should be any questions concerning the amount of the fee or should our check become detached, please debit or credit our Deposit Account Number 16-0331 as needed in order to effect proper filing of the attached document.

Respectfully submitted,

PARKHURST & WENDEL, L.L.P.

June 30, 2000  
Date

Roger W. Parkhurst  
Roger W. Parkhurst  
Registration No. 25,177

RWP/ch  
Attorney Docket No. HYAE:098

PARKHURST & WENDEL, L.L.P.  
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(rev. 4/96)

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) Kazutaka ABE (5) Naoki EJIMA (2) Masaharu MATSUMOTO (6) (3) Akihisa KAWAMURA (7) (4) Masatoshi SHIMBO (8)

In consideration of the sum of dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee (9) Matsushita Electric Industrial Co., Ltd. (10) Insert address of Assignee (10) 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(11) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number (11) SIGNAL PROCESSING APPARATUS (Case No. HYAE:098)

for which the undersigned has (have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12 on June 12, 2000

(13) Alternative identification for filed applications (13) U.S. application Serial Number 09/530,540 filed May 2, 2000

- 1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
3) 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.
4) 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.
5) 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 divisions or continuing 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.
6) The undersigned hereby grant(s) the firm of PARKHURST & WENDEL, L.L.P. 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 and Trademark Office recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s). Date June 12, 2000 Name of Inventor Kazutaka Abe (SEAL) Date June 12, 2000 Name of Inventor Masaharu Matsumoto (SEAL) Date June 12, 2000 Name of Inventor Akihisa Kawamura (SEAL) Date June 12, 2000 Name of Inventor Masatoshi Shimbo (SEAL) Date June 12, 2000 Name of Inventor Naoki Ejima (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. or (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date June 19, 2000 Witness Yoshikuro Mori Date June 20, 2000 Witness Akihiko Ishikawa