

04-30-2002



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PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Naoya TOKUNAGA et al.

Serial No.: 10/081,718

4/24/02

Filed: February 25, 2002

For: WAVEFORM EQUALIZATION APPARATUS

ASSIGNMENT TRANSMITTAL LETTER

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

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. Submission Type:

Conveyance Type:

- | | |
|---------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> New | <input checked="" type="checkbox"/> Assignment |
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2. Name of Conveying Party(ies):

Naoya Tokunaga, Kazuya Ueda.

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

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
1006, Oaza Kadoma, Kadoma-shi,
Osaka 571-8501 JAPAN.

4. Execution Date of Assignment: March 19 and 29, 2002.

5. If this Assignment is being filed together with a new application, the execution date of the application is: March 19 and 29, 2002.

6. Total number of applications and patents involved: one (1).

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 *15302* .

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 four (4).

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.



Roger W. Parkhurst
Registration No. 25,177

April 24, 2002

Date

Attorney Docket No. HYAE:133

PARKHURST & WENDEL, L.L.P.
1421 Prince Street, Suite 210
Alexandria, Virginia 22314-2805
Telephone: (703) 739-0220

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) Naoya TOKUNAGA (5) (2) Kazuya UEDA (6) (3) (7) (4) (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) WAVEFORM EQUALIZATION APPARATUS (Case No. HYAE:133)

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 March 19, and 29, 2002

(13) Alternative identification for filed applications (13) U.S. application Serial Number 10/081,718 filed February 25, 2002

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 March 19, 2002 Name of Inventor Naoya Tokunaga (SEAL) Date March 29, 2002 Name of Inventor Kazuya Ueda (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (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 March 19, 2002 Witness Fukuoka Toshihiko Date March 29, 2002 Witness Saito Kenichi

ASSIGN