

08-25-1999



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8-20-99

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Kenichi MORIGUCHI et al.

Serial No.: 09/348,253

Filed: July 7, 1999

For: NETWORK SYSTEM, NETWORK TERMINAL, AND METHOD FOR
SPECIFYING LOCATION OF FAILURE IN NETWORK SYSTEM

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. Name of Conveying Party(ies):

Kenichi MORIGUCHI; Toshihisa IKEDA; Yuji MIZUGUCHI;
Takahisa SAKAI; Toshikazu HATTORI.

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

4CE

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

3. Execution Date of Assignment: July 30, 1999.

4. If this Assignment is being filed together with a new
application, the execution date of the application is: July
30, 1999.

5. Total number of applications and patents involved: 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 11872.

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.



Roger W. Parkhurst
Registration No. 25,177

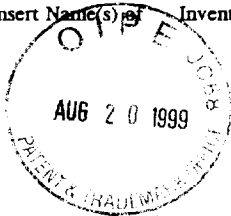
August 20, 1999

Date

Attorney Docket No. HYAE:092
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) Kenichi MORIGUCHI (5) Toshikazu HATTORI
 (2) Toshihisa IKEDA (6) _____
 (3) Yuji MIZUGUCHI (7) _____
 (4) Takahisa SAKAI (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) NETWORK SYSTEM, NETWORK TERMINAL, AND METHOD FOR SPECIFYING LOCATION OF FAILURE IN NETWORK SYSTEM
 (Case No. HYAE:092)

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 _____

(13) Alternative identification for filed applications

(13) U.S. application Serial Number 09/348,253

filed July 7, 1999

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 <u>Jul 30, 1999</u>	Name of Inventor <u>Kenichi Moriguchi</u> (SEAL)
Date <u>Jul 30, 1999</u>	Name of Inventor <u>Toshihisa Ikeda</u> (SEAL)
Date <u>July 30, 1999</u>	Name of Inventor <u>Yuji Mizuguchi</u> (SEAL)
Date <u>July 30, 1999</u>	Name of Inventor <u>Takahisa Sakai</u> (SEAL)
Date <u>July 30, 1999</u>	Name of Inventor <u>Toshikazu Hattori</u> (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 <u>July 30, 1999</u>	Witness <u>Eiichiro Ikeda</u>
Date <u>July 30, 1999</u>	Witness <u>Toshihisa Ikeda</u>