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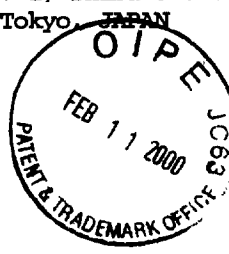
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COVER SHEET

Patent and Trademark Office

PATENTS ONLY

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copies thereof

1. Name of conveying party(ies): Yuji KANEKO Yoshihide KIKUCHI Koichi FUNAYA Katsuaki YAMAMOTO		2. Name and address of receiving party(ies): NEC CORPORATION 7-1, Shiba 5-chome, Minato-ku Tokyo, JAPAN	
Additional conveying party(ies) NO			
3. Nature of conveyance: ASSIGNMENT Execution Date: January 5, 2000			
4. Application number(s) or patent number(s): If this is being filed together with a new application, the execution date of the application is: A. Patent Application Number(s): 09/443,379		Additional name(s) & address(es) attached? NO B. Patent Number(s):	
5. Name and address of party to whom correspondence concerning document should be mailed: David A. Blumenthal FOLEY & LARDNER Washington Harbour 3000 K Street, N.W., Suite 500 Washington, D.C. 20007-5109		6. Total number of applications/patents involved: 1 7. Total fee (37 C.F.R. § 3.41): \$40.00 <input checked="" type="checkbox"/> Check Enclosed Charge to deposit account 8. Deposit account number: 19-0741	

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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. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Phillip J. Articola
David A. Blumenthal

Phillip J. Articola
Signature
Reg. No. 38819

February 11, 2000

for Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 2

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and address of assignee

NEC Corporation
7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

title of invention

PROGRAM INFORMATION PROVIDING APPARATUS AND RECORD/PLAYBACK CONTROL APPARATUS

as set forth in this United States Patent Application

check one

executed concurrently herewith

executed on _____

Serial No. 09/443,379 Filed November 19, 1999

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention or including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith.

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or other application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **FOLEY & LARDNER** the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTORS

Name: Yuji KANEKO	Signature: <i>Yuji Kaneko</i>	Date: January 5, 2000
Name: Yoshihide KIKUCHI	Signature: <i>Yoshihide Kikuchi</i>	Date: January 5, 2000
Name: Koichi FUNAYA	Signature: <i>Koichi Funaya</i>	Date: January 5, 2000
Name: Katsuaki YAMAMOTO	Signature: <i>Katsuaki Yamamoto</i>	Date: January 5, 2000

NAMES AND SIGNATURES OF WITNESSES

Name: Fumitake WATANABE	Signature: <i>Fumitake Watanabe</i>	Date: January 5, 2000
Name: Akira MUTO	Signature: <i>Akira Muto</i>	Date: January 5, 2000

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