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FORM PTO-1595 (modified)

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1. Name of conveying party(ies):  
**Masahiro KURODA**

Additional conveying party(ies) **NO**

2. Name and address of receiving party(ies):

**NEC CORPORATION**  
**7-1, Shiba 5-chome**  
**Minato-ku, Tokyo, JAPAN 108-8001**

*12-13-99*

Additional name(s) & address(es) attached? **NO**

Jc678 U.S. PTO  
 09/458696  
 12/13/99

3. Nature of conveyance:  
**ASSIGNMENT**

Execution Date:  
**December 10, 1999**

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: **December 10, 1999**

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? **NO**

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**

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*David A. Blumenthal*  
**David A. Blumenthal**

*[Signature]*

December 13, 1999

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

12/28/1999 APELLIN 0000013 09458696  
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**PATENT**  
**REEL: 010457 FRAME: 0515**

# ASSIGNMENT

WN-2126  
10-353525

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

DEVICE FOR RECORDING VIDEO SIGNALS AND DEVICE FOR DISPLAYING ELECTRONIC PROGRAM GUIDE

as set forth in this United States Patent Application

check one

- executed concurrently herewith
- executed on \_\_\_\_\_
- Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

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, 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 patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings 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: MASAHIRO KURODA	Signature: <i>Masa Hiro Kuroda</i> (Seal)	Date: 12/10/'99
Name:	Signature:	Date:
Name:	Signature:	Date:
Name:	Signature:	Date:
NAMES AND SIGNATURES OF WITNESSES		
Name: FUMITAKE WATANABE	Signature: <i>Fumitake Watanabe</i>	Date: 12/10/'99
Name: AKIRA MUTO	Signature: <i>Akira Muto</i>	Date: 12/10/'99

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