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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
 Kenji MATSUMOTO Koichi YONETA
 Shigeyuki ITOH Tetsuharu INAMITSU
 Yutaka TAKAMI Yoshiisa INOUE
 Masayuki INOUE
 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
 Name: Hitachi, Ltd.
 Street Address: 6, Kanda Surugadai, 4-chome,
 Chiyoda-ku
 City: Tokyo
 Country: JAPAN
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: July 8, 1999

10617 U.S. PTO
 09/356444
 07/19/99

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: July 8, 1999
 A. Patent Application No.(s)
 B. Patent No.(s)
 Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP
 Internal Address:
 Street Address: 1300 North Seventeenth Street
 Suite 1800
 City: Arlington State: VA Zip: 22209

6. Total number of applications and patents involved: 1
 7. Total fee (37 CFR 3.41)\$40.00
 Enclosed
 Any deficiencies may be charged to deposit account
 Authorized to be charged to deposit account
 8. Deposit account number: 01-2135
 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.
Melvin Kraus *Melvin Kraus* July 19, 1999
 Name of Person Signing Signature Date
 Attorney Registration No. 22,466
 Total number of pages including cover sheet, attachments, and document 3

OMB No. 0651-0011 (exp. 4/94)

07/28/1999 KHARLING 00000048 09356444

04 FC:581

40.00 DP

Name: Hitachi Video & Information System, Inc.

Address: 292, Yoshidacho, Totsuka-ku, Yokohama-shi,
Kanagawa-ken, JAPAN

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar(\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Kenji MATSUMOTO, Shigeyuki ITOH, Yutaka TAKAMI, Masayuki INOUE, Koichi YONETA, Tetsuharu INAMITSU, and Yoshiisa INOUE,

citizens of Japan by HITACHI, LTD., and Hitachi Video & Information System, Inc., corporations organized under the laws of Japan,

located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 292, Yoshidacho, Totsuka-ku, Yokohama-shi, Kanagawa-ken, Japan, respectively,

receipt of which is hereby acknowledged, we, the said Kenji MATSUMOTO, Shigeyuki ITOH, Yutaka TAKAMI, Masayuki INOUE, Koichi YONETA, Tetsuharu INAMITSU, and Yoshiisa INOUE,

do hereby sell and assign to said HITACHI, LTD., and Hitachi Video & Information System, Inc.,

their successors and assigns, all our right, title and interest, in and for the United States of America,

in and to "IC CARD INFORMATION PROCESSING SYSTEM, AND APPARATUSES AND CARDS FOR THE SAME"

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extentions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., and Hitachi Video & Information System, Inc.,

their Successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extention, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD., and Hitachi Video & Information System, Inc.

Signed on the dates indicated aside our signatures:

INVENTORS (発明者フルネームサイン)	Date Signed (署名日)	Witnesses (立会人サイン)
1) <u>Kenji Matsumoto</u> (Kenji MATSUMOTO)	July 8, 1999	<u>Yasuji Moriyama</u>
2) <u>Shigeyuki Itoh</u> (Shigeyuki ITOH)	July 8, 1999	<u>Yasuji Moriyama</u>
3) <u>Yutaka Takami</u> (Yutaka TAKAMI)	July 8, 1999	<u>Yasuji Moriyama</u>
4) <u>Masayuki Inoue</u> (Masayuki INOUE)	July 8, 1999	<u>Yasuji Moriyama</u>
5) <u>Koichi Yoneta</u> (Koichi YONETA)	July 8, 1999	<u>Yasuji Moriyama</u>
6) <u>Tetsuharu Inamitsu</u> (Tetsuharu INAMITSU)	July 8, 1999	<u>Yasuji Moriyama</u>
7) <u>Yoshiisa Inoue</u> (Yoshiisa INOUE)	July 8, 1999	<u>Yasuji Moriyama</u>
8) _____ ()	_____	_____