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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):
Junichi MATSUNO, Shogo MATSUMOTO, Akira MORI,
Keiji KAMIO, Mitsuo SUZUKI

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: August 4, 1998

2. Name and address of receiving party(ies)

Name: Hitachi LTD

Internal Address: _____

Street Address: 6, Kanda Surugadai 4-Chome

Chiyoda-Ku, Tokyo Japan

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached? Yes No

CS1B U.S. PTO
09/14/98
09/03/98

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: August 4, 1998

A. Patent Application No.(s)

B. Patent No.(s)

09/10/1998 PILEN 00000013 09146350

02 FC:581

40.00 BP

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:

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

01-2135

(Attach duplicate copy of this page if paying by deposit account)

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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.

Melvin Kraus

Melvin Kraus

September 3, 1998

Name of Person Signing

22,466

Signature

Date

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

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

PATENT
REEL: 9438 FRAME: 0689

ASSIGNMENT

(讓渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns all my right, title and interest, in and for the United States of America, in and to

"RECORDING APPARATUS"

invented by me (if only one is named below) or us (if plural inventors are named below) 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., its 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 me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the 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 I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S) (發明者フルネームサイン)	Date Signed (署名日)	Witnesses (立会人サイン)
1) <u>Junichi Matsuno</u> (Junichi MATSUNO)	August 4, 1998	<u>Yuzo Morita</u>
2) <u>Shogo Matsumoto</u> (Shogo MATSUMOTO)	August 4, 1998	<u>Yuzo Morita</u>
3) <u>Akira Mori</u> (Akira MORI)	August 4, 1998	<u>Yuzo Morita</u>
4) <u>Keiji Kamio</u> (Keiji KAMIO)	August 4, 1998	<u>Yuzo Morita</u>
5) <u>Mitsuo Suzuki</u> (Mitsuo SUZUKI)	August 4, 1998	<u>Yuzo Morita</u>
6) _____	_____	_____
7) _____	_____	_____
8) _____	_____	_____
9) _____	_____	_____
10) _____	_____	_____