To the Director of the U.S. Patent and Industrial 103 169  1. Name of conveying party(ies): Yoshitake SANO  Additional name(s) of conveying party(ies) attached?  Yes No  3. Nature of conveyance/Execution Date(s):  Execution Date(s) _January 12, 2006  Assignment	2. Name and address of receiving party(ies) Name: HITACHI, LTD.  Street Address: 6-6, Marunouchi 1-chome Chiyoda-ku, Tokyo, Japan  Additional name(s) & address(es) attached?  Yes  No.
1. Name of conveying party(ies): Yoshitake SANO  Additional name(s) of conveying party(ies) attached?  Yes No  3. Nature of conveyance/Execution Date(s):  Execution Date(s)January 12, 2006  Assignment	2. Name and address of receiving party(ies) Name: HITACHI, LTD.  O  Street Address: 6-6, Marunouchi 1-chome Chiyoda-ku, Tokyo, Japan
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	Additional name(s) & address(es) attached? ☐ Yes ☒ No
☐ Joint Research Agreement ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License	Additional name(s) & address(es) attached? ☐ Yes ☒ No
4. Application or patent numbers(s):	This document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent Registration No.(s)
Additional number(s) att	tached ☐ Yes ☒ No
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved 1
Name. ANTONELLI, TERRI, STOUT & RICAUS, ELF	7. Total fee (37 CFR 3.41)
Internal Address:	
1300 NORTH 17 <sup>TH</sup> STREET – SUITE 1800	
City: ARLINGTON State: VA Zip 22209	8. Payment Information  a. Credit Card Last 4 Numbers 1065
Phone Number: 703-312-6000 Fax Number: 703-312-6666	Expiration butto
Email Address: email@antonelli.com	b. Deposit account number: 01-2135  Authorized User Name Alan E. Schiavelli

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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

01/27/2006 FFANAEIA 00000064 11339465 04 FC:8021 40.00 GP

Paul J. Skwierawski, Reg#32,173

Name of Person Signing

01/25/2006 Date

## ASSIGNMENT (譲渡証)

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 6-6, Marunouchi 1-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

## A SYSTEM, APPARATUS AND METHOD FOR READING DATA

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 extensions 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, extension, 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 our signatures:

RECORDED: 01/26/2006

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1) ywhitake Dano	1/12/06
2)	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	

PATENT REEL: 017511 FRAME: 0487