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			U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
To the Honorable Commissioner of Pat	ents10252	9235	ned original documents or copy thereof.	
1. Name of conveying party(ies)	8.12.03		ss of receiving party(ies)	
Hiroyuki SUGAWARA, Junichi			SONY CORPORATION 7-35 Kitashinagawa 6-chome gawa-Ku, Tokyo 141-0001, Japan	
Additional name(s) of conveying par Yes X No		Additional name(s)	& address(es) attached?Yes _x No	
3. Nature of conveyance:				
X Assignment Security Agreement Merger Change of Name Other Execution Date: July 11, 2003			143 U.S. PTO	
4. Application number(s) or patent number. If this document is been the application is: A. Patent Application No.(s)	eing filed together with	33988 a new application,	the execution date of	
	Additional numbers atta			
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number o patents involv	applications and ed	
Name: WILLIAM S. FROMMER		7. Total fee (37	CFR 3.41) \$ 40.00	
Internal Address: FROMMER LAWRENCE & HAL	JG LLP		Enclosed Authorized to be charged to deposit account 50-0320	
Street Address: 745 FIFTH AVENUE	Zip: <u>10151</u>	8. Deposit account number: (Attach duplicate copy of this page if paying by deposit		
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of the original document.	Do not use		orrect and any attached copy is a true copy	
William S. Frommer Name of Person Signing	Signa	Mire Tomas	August 12, 2003 Date	
Rame of Ferdon orgining	3 13116	CG1 C -	Total number of pages including cover sheet, attachments, and document: 2	
Mail document	Do not detach ts to be recorded with r Mail Stop Assignment	equired cover sheet	information to:	
	Commissioner P.O. Bo Alexandria, V	for Patents x 1450		

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.

S03P0970US00 CMS Docket Number: 450100-04709

ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

DATA STORAGE SYSTEM

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing _____, Filing Date: ___ date of this application in the spaces that follow: Serial Number: This assignment executed on the dates indicated below. Hiroyuki SUGAWARA Execution date of U.S. Patent Application Name of first or sole inventor Tokyo, Japan Residence of first or sole inventor JULY 11, 2003
Date of this assignment Signature of first or sole inventor Junichi KURIHARA Execution date of U.S. Patent Application Name of second inventor Kanagawa, Japan Residence of second inventor JULY 11, 2003

Date of this assignment Signature of second inventor Execution date of U.S. Patent Application Name of third inventor Residence of third inventor

Date of this assignment

PATENT REEL: 014395 FRAME: 0521

Signature of third inventor