12/19/00	101578685	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.			
1. Name of conveying party(ies)	2. Name and addres	2. Name and address of receiving party(ies)	
Akira NONAKA, Tadashi EZAKI		Name: SONY CORPORATION 7-35 Kitashinagawa 6-chome Shinagawa-Ku, Tokyo 141-0001, Japan	
Additional name(s) of conveying party(ies Yes _X_ No		& address(es) attached? <u>Y</u> es <u>x</u> No	
3. Nature of conveyance: X Assignment Security Agreement Merger Change of Name Other	9/7410	31 U.S. PT0 9/741668 2/19/00	
Execution Date: <u>December 6 and December 5, 20</u>	00_) jc 5	
the application is: <u>December</u> A. Patent Application No.(s)1	iled together with a new application, t er 6 and December 5, 2000		
5. Name and address of party to whom correspondence oncerning document should be mailed:		6. Total number of applications and patents involved 1_	
Name: WILLIAM S. FROMMER Internal Address: FROMMER LAWRENCE & HAUG LLP Street Address: 745 FIFTH AVENUE	<u>X</u> E	FR 3.41)	
City: <u>NEW YORK</u> State: <u>N.Y.</u> Zip:		Deposit account number: (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 original document. William S. Frommer Name of Person Signing	ne foregoing information is true and co	December 19, 2000 Date Total number of pages including cover sheet, attachments, and document: 2	
	Do not detach this portion		
Mail documents to	be recorded with required cover sheet	information to:	
	ommissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231 sheet is estimated to average about 30 gathering the data needed, and complet	minutes per document to be recorded, ing and reviewing the sample cover sheet.	
PK2-1000C, Washington, D.C. 20231, and to the Washington, D.C. 20503.	Office of Management and Budget, Paper	work Reduction Project (0651-0011),	

PATENT **REEL: 011405 FRAME: 0587**

S00P1537US00 CMS Docket Number: 450100-02904

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 PROCESSING APPARATUS, DATA PROCESSING SYSTEM, AND DATA PROCESSING METHOD THEREFOR

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 address;

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.

into which would conflict with this assignment and sale.	
And I hereby authorize and request my attorney date of this application in the spaces that follow: Serial Number:	r(s) of record in this application to insert the serial number and filing Filing Date:
This assignment executed on the dates indicated	below.
AKIRA NONAKA	
Name of first or sole inventor KANAGAWA, JAPAN	Execution date of U.S. Patent Application
Residence of first or sole inventor Aktica Nonaka	December 6,2000
Signature of first or sole inventor	Date of this assignment
TADASHI EZAKI	
Name of second inventor TOKYO, JAPAN	Execution date of U.S. Patent Application
Residence of second inventor Tadashi Ezalu	December 5, 2000
Signature of second inventor	Date of this assignment
Name of third inventor	Execution date of U.S. Patent Application
Residence of third inventor	

Date of this assignment

PATENT REEL: 011405 FRAME: 0588

RECORDED: 12/19/2000

Signature of third inventor