11-22-2000 FORM PTO-1619A U.S. Department of Commerce Patent and Trademark Office Expres 06/30/99 OMB 0651-0027 PATENT 9 SEP 2000 430 Rec'd PCT/PTO 101524359 RECORDATION FURNI COVER SHEET PATENTS ONLY SONYJP 3.3-097 TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies). Submission Type 9-19-00 Conveyance Type X Assignment Security Agreement New Resubmission (Non-Recordation) License Change of Name Document ID# Correction of PTO Error Other Merger Frame # Reel # U.S. Government
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PATENT

REEL: 011252 FRAME: 0046

A/D 581.40

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430 Rec'd PCT/PTO 1 9 SEP 2000 FORM PTO-1619B **U.S. Department of Commerce** Page 2 Patent and Trademark Office OMB 0651-0027 PATENT Correspondent Name and Address Area Code and Telephone Number 908-654-5000 Name Lerner, David, Littenberg, Krumholz & Mentlik, LLP Address (line 1) 600 South Avenue West Address (line 2) Westfield, New Jersey 07090-1497 Address (line 3) Address (line 4) **Pages** Enter the total number of pages of the attached conveyance document including any attachments. Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). Patent Application Number(s) Patent Number(s) Year If this document is being filed together with a new Patent Application, enter the date the patent application was 08312000 signed by the first named executing inventor. Patent Cooperation Treaty (PCT) PCT JP0000290 **Enter PCT application number** only if a U.S. Application Number PCT PCT PCT has not been assigned. **Number of Properties** 1. Enter the total number of properties involved. Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00 Method of Payment: Enclosed Deposit Account **Deposit Account** (Enter for payment by deposit account or if additional fees can be charged to the account.) 12-1095 **Deposit Account Number:** Authorization to charge additional fees: No Yes 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. Charges to deposit account are authorized, as indicated herein. ROBERT B. COHEN September 19, 2000 Date

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Name of Person Signing

PATENT REEL: 011252 FRAME: 0047

Docket Number: SONYJP 3.3-097 SONY REFERENCE NO.: S00P0071US00

ASSIGNMENT

WHEREAS, I. as a below named inventor, residing at the address stated next to my name, 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 DEVICE AND DATA PROCESSING METHOD

for which an International Application was filed on January 21, 2000. PCT/JP00/00290, designating the United States.

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, Japan (hereinafter referenced 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 attorand filing date of this application in the spaces that follow: Ap	rney(s) of record in this application to insert the application number plication Number:, Filing Date:
This assignment executed on the dates indica	ted below.
Takeo Morinaga	
Name of First or Sole Inventor	Execution Date of U.S. Patent Application
Kanagawa, Japan	
Residence of First or Sole Inventor (a Keo Movinga.	August 31, 2000
Signature of First or Sole Inventor	Date of this Assignment

Signature of First or Sole Inventor

PATENT REEL: 011252 FRAME: 0048

Docket Number: SONYJP 3.3-097

Ichiro Hamada	
Name of Second Joint Inventor	Execution Date of U.S. Patent Application
Kanagawa, Japan	
Residence of Second Joint Inventor	
Signature of Second Joint Inventor	August 31, 2000 Date of this Assignment
Signature of Second Joint Inventor	Date of this Assignment
Name of Third Joint Inventor	Execution Date of U.S. Patent Application
Residence of Third Joint Inventor	
Signature of Third Joint Inventor	Date of this Assignment
Name of Fourth Joint Inventor	Execution Date of U.S. Patent Application
Residence of Fourth Joint Inventor	
Signature of Fourth Joint Inventor	Date of this Assignment
Name of Fifth Joint Inventor	Execution Date of U.S. Patent Application
Residence of Fifth Joint Inventor	
Signature of Fifth Joint Inventor	Date of this Assignment

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